



SCOTT THOMPSON
EXECUTIVE DIRECTOR

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
GOVERNOR

February 8th, 2016

(b) (6)

Dear Mr. and Mrs. (b) (6),

The Oklahoma Department of Environmental Quality (DEQ) sampled water from your house well on December 18th, 2015 as part of a reoccurring sampling event that will be performed approximately every six months. DEQ has offered this sampling to residents that live on, or adjacent to the Wilcox Oil Company Superfund Site. You are receiving this letter because you have provided DEQ permission to enter your property and collect a water sample from your well.

DEQ sampled for four types of contaminants in your private well. Those are: Biological (E. Coli and Total Coliform), Volatile Organic Compounds (VOCs), Semi-Volatile Organic Compounds (SVOCs) and Metals.

The first page of the sampling results is for E. Coli and Total Coliform Bacteria. E. Coli was not detected in your well as indicated by the "<" symbol in the Results column.

Total Coliform was detected in your well. DEQ recommends disinfection of your water well to address the presence of Total Coliform. Once disinfected, DEQ can resample your well to verify that the contaminant has been removed. See the attached instruction sheet on how to disinfect your well.

The second page of the sampling results is for VOCs. VOCs were not detected in your well as indicated by the "<" in the Results column.

Pages 3 through 5 of the sampling results are for SVOCs. SVOCs were not detected in your well as indicated by the "<" symbol in the Qualifier column.

The last page of the sampling results is for Metals. Several metals were detected (highlighted) at low concentrations, which is considered normal levels and are not considered to be a health risk.

If you have questions about this letter or the sampling data, do not hesitate to call me at (405) 702-5136. Please contact Katrina Higgins Coltrain with the U.S. Environmental Protection Agency at (214) 665-8143 with any questions about the EPA Superfund process or plans for the Wilcox Site.

Sincerely,

W. Todd Downham

Todd Downham
Project Manager, Wilcox Oil Company Superfund Site



SCOTT THOMPSON
EXECUTIVE DIRECTOR

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
GOVERNOR

Land Protection Division
Oklahoma Department of Environmental Quality

c. Katrina Higgins Coltrain, U.S. EPA Dallas





State Environmental Laboratory Services Division

EPA DRINKING WATER CERTIFICATION #OK00013

General Inquiries: 1-866-412-3057

SAMPLE INFORMATION

Sample Number: 066587.001

Collected By: TD

Description: (b) (6)

Collected: 12/8/15 9:50 am

Received: 12/8/15 4:09 pm

TEST RESULTS

Analysis: Total Coliforms

Analysis Method: SM 9223B

Component Name	Result	Unit	Qualifiers	Analyst	Analysis Date
E. Coli	<1.0	MPN/100 mL		BCD	12/9/15
Total Coliform	517.2	MPN/100 mL		BCD	12/9/15



State Environmental Laboratory Services Division

EPA DRINKING WATER CERTIFICATION #OK00013

General Inquiries: 1-866-412-3057

SAMPLE INFORMATION

Sample Number: 066587.002

Collected By: TD

Description: (b) (6)

Collected: 12/8/15 9:50 am

Received: 12/8/15 4:09 pm

TEST RESULTS

Analysis: Volatile Organic Compounds

Analysis Method: EPA 524.3

Component Name	Result	Unit	Qualifiers	Analyst	Analysis Date
1,1,1-Trichloroethane	<0.5	µg/L		SAR	12/9/15
1,1,2-Trichloroethane	<0.5	µg/L		SAR	12/9/15
1,1-Dichloroethene	<0.5	µg/L		SAR	12/9/15
1,2,4-Trichlorobenzene	<0.5	µg/L		SAR	12/9/15
1,2-Dichlorobenzene	<0.5	µg/L		SAR	12/9/15
1,2-Dichloroethane	<0.5	µg/L		SAR	12/9/15
1,2-Dichloropropane	<0.5	µg/L		SAR	12/9/15
1,4-Dichlorobenzene	<0.5	µg/L		SAR	12/9/15
Benzene	<0.5	µg/L		SAR	12/9/15
Carbon Tetrachloride	<0.5	µg/L		SAR	12/9/15
Chlorobenzene	<0.5	µg/L		SAR	12/9/15
cis-1,2-Dichloroethene	<0.5	µg/L		SAR	12/9/15
Ethylbenzene	<0.5	µg/L		SAR	12/9/15
Methyl tert-Butyl Ether (MtBE)	<0.5	µg/L		SAR	12/9/15
Methylene Chloride	<0.5	µg/L		SAR	12/9/15
Styrene	<0.5	µg/L		SAR	12/9/15
Tetrachloroethene	<0.5	µg/L		SAR	12/9/15
Toluene	<0.5	µg/L		SAR	12/9/15
trans-1,2-Dichloroethene	<0.5	µg/L		SAR	12/9/15
Trichloroethene	<0.5	µg/L		SAR	12/9/15
Vinyl Chloride	<0.5	µg/L		SAR	12/9/15
Xylenes	<0.5	µg/L		SAR	12/9/15

Sample Number: 547549
 Project Code: SW-WE
 Agency Number: 1195
 Date Collected: 12/8/2015
 Time Collected: 0950
 Date Received: 12/8/2015
 Date Completed: 12/15/2015
 Collected By: TD
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 12/15/2015

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
 707 N. ROBINSON
 OKLAHOMA CITY
 OKLAHOMA, 73102-6010
 General Inquiries: 1-866-412-3057
 or selsd@deq.ok.gov
Report of Analysis by GCMS
 EPA Drinking Water Certification #OK00012

To: TODD DOWNHAM/LPD

CC: FILE COPY

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Dilution Factor, Extractab:		1.00		12/14/15		
Acenaphthylene	<	20.0	UG/L	12/14/15	8270DM	
Acenaphthene	<	20.0	UG/L	12/14/15	8270DM	
Anthracene	<	20.0	UG/L	12/14/15	8270DM	
Benzo(b)fluoranthene	<	20.0	UG/L	12/14/15	8270DM	
Benzo(k)fluoranthene	<	20.0	UG/L	12/14/15	8270DM	
Benzo(a)pyrene	<	20.0	UG/L	12/14/15	8270DM	
Bis(2-chloroethyl)ether	<	20.0	UG/L	12/14/15	8270DM	
Bis(2-chloroethoxy)methane	<	20.0	UG/L	12/14/15	8270DM	
Bis(2-chloroisopropyl)ether	<	20.0	UG/L	12/14/15	8270DM	
Butylbenzylphthalate	<	20.0	UG/L	12/14/15	8270DM	
Chrysene	<	20.0	UG/L	12/14/15	8270DM	
Diethylphthalate	<	20.0	UG/L	12/14/15	8270DM	
Dimethylphthalate	<	20.0	UG/L	12/14/15	8270DM	
Fluoranthene	<	20.0	UG/L	12/14/15	8270DM	
Fluorene	<	20.0	UG/L	12/14/15	8270DM	
Hexachlorocyclopentadiene	<	20.0	UG/L	12/14/15	8270DM	
Hexachloroethane in water	<	20.0	UG/L	12/14/15	8270DM	
Indeno(123cd)pyrene	<	20.0	UG/L	12/14/15	8270DM	
Isophorone	<	20.0	UG/L	12/14/15	8270DM	
Nitrosodipropylamine	<	20.0	UG/L	12/14/15	8270DM	
Nitrosodiphenylamine	<	20.0	UG/L	12/14/15	8270DM	
Nitrobenzene	<	20.0	UG/L	12/14/15	8270DM	
p-Chloro-m-cresol	<	20.0	UG/L	12/14/15	8270DM	
Phenanthrene	<	20.0	UG/L	12/14/15	8270DM	
Pyrene	<	20.0	UG/L	12/14/15	8270DM	
Benzo(ghi)perylene	<	20.0	UG/L	12/14/15	8270DM	
Benzo(a)anthracene	<	20.0	UG/L	12/14/15	8270DM	
1,2,4-Trichlorobenzene	<	20.0	UG/L	12/14/15	8270DM	
Dibenzo(ah)anthracene	<	20.0	UG/L	12/14/15	8270DM	
1,4-Dichlorobenzene	<	20.0	UG/L	12/14/15	8270DM	
2-Chloronaphthalene	<	20.0	UG/L	12/14/15	8270DM	
2-Chlorophenol	<	20.0	UG/L	12/14/15	8270DM	

Sample Number: 547549
 Project Code: SW-WE
 Agency Number: 1195
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 OKLAHOMA, 73102-6010
 General Inquiries: 1-866-412-3057
 or selsd@deq.ok.gov
Report of Analysis by GCMS
 EPA Drinking Water Certification #OK09013

To: TODD DOWNHAM/LPD

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Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
2-Nitrophenol	<	20.0	UG/L	12/14/15	8270DM	
Di-n-octylphthalate	<	20.0	UG/L	12/14/15	8270DM	
2,4-Dichlorophenol	<	20.0	UG/L	12/14/15	8270DM	
2,4-Dimethylphenol	<	20.0	UG/L	12/14/15	8270DM	
2,4-Dinitrotoluene	<	20.0	UG/L	12/14/15	8270DM	
2,4-Dinitrophenol	<	50.0	UG/L	12/14/15	8270DM	
2,4,6-Trichlorophenol	<	20.0	UG/L	12/14/15	8270DM	
2,6-Dinitrotoluene	<	20.0	UG/L	12/14/15	8270DM	
3,3'-Dichlorobenzidine	<	20.0	UG/L	12/14/15	8270DM	
4-Bromophenylphenyl ether	<	20.0	UG/L	12/14/15	8270DM	
4-Chlorophenyl phenylether	<	20.0	UG/L	12/14/15	8270DM	
4-Nitrophenol	<	50.0	UG/L	12/14/15	8270DM	
4,6-Dinitro-o-cresol	<	50.0	UG/L	12/14/15	8270DM	
Phenol	<	20.0	UG/L	12/14/15	8270DM	
Naphthalene	<	20.0	UG/L	12/14/15	8270DM	
Pentachlorophenol	<	50.0	UG/L	12/14/15	8270DM	
Bis(2-ethylhexyl)phthalate	<	20.0	UG/L	12/14/15	8270DM	
Di-n-butylphthalate	<	20.0	UG/L	12/14/15	8270DM	
Hexachlorobenzene	<	20.0	UG/L	12/14/15	8270DM	
Hexachlorobutadiene	<	20.0	UG/L	12/14/15	8270DM	
Dibenzofuran	<	20.0	UG/L	12/14/15	8270DM	
2-Methylnaphthalene	<	20.0	UG/L	12/14/15	8270DM	
2-Methylphenol	<	20.0	UG/L	12/14/15	8270DM	
4-Methylphenol	<	20.0	UG/L	12/14/15	8270DM	
2,4,5-Trichlorophenol	<	20.0	UG/L	12/14/15	8270DM	
4-Chloroaniline	<	20.0	UG/L	12/14/15	8270DM	
2-Nitroaniline	<	50.0	UG/L	12/14/15	8270DM	
3-Nitroaniline	<	50.0	UG/L	12/14/15	8270DM	
4-Nitroaniline	<	50.0	UG/L	12/14/15	8270DM	

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
2-FLUOROBIPHENYL		78
NITROBENZENE-D5		78

Sample Number: 547549
Project Code: SW-WE
Agency Number: 1195
Date Collected: 12/8/2015
Time Collected: 0950
Date Received: 12/8/2015
Date Completed: 12/15/2015
Collected By: TD
PWS Id:
Location Code:
Station:
Facility:
Report Date: 12/15/2015

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
707 N. ROBINSON
OKLAHOMA CITY
OKLAHOMA, 73102-6010
General Inquiries: 1-866-412-3057
or selsd@deq.ok.gov
Report of Analysis by GCMS
EPA Drinking Water Certification #OK00013

To: TODD DOWNHAM/LPD

CC: FILE COPY

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
2-FLUOROPHENOL		40
PHENOL-D5		25
2,4,6-TRIBROMOPHENOL		110
P-TERPHENYL-D14		95

COMPOUND	TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH	VALUE	UNITS
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NU

Summary

Labs performing analysis on this Sample:

Metals GCMS

SOURCE: WILCOX

COUNTY: CITY:

SAMPLERS COMMENTS:

WR-1; (b) (6); LW PROJECT ID DEQ-066587

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE TEMP = 2.7 C

ANALYST'S COMMENTS:

Heather Rhoads (8270DM), (NU) No TICs (tentatively identified compounds) were detected above the lower limit of quantitation for this analysis.

* ANALYST

Heather Rhoads

Sample Number: 547549
Project Code: SW-WE
Agency Number: 1195
Date Collected: 12/8/2015
Time Collected: 0950
Date Received: 12/8/2015
Date Completed: 12/17/2015
Collected By: TD
PWS Id:
Location Code:
Station:
Facility:
Report Date: 12/17/2015

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
707 N. ROBINSON
OKLAHOMA CITY
OKLAHOMA, 73102-6010
General Inquiries: 1-866-412-3057
or selsd@deq.ok.gov
Report of Analysis by Metals
EPA Drinking Water Certification #OK00013

To: TODD DOWNHAM/LPD

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Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Arsenic, Total	<	2.00	UG/L	12/11/15	200.8	
Barium, Total		152	UG/L	12/11/15	200.8	
Beryllium, Total	<	2.00	UG/L	12/11/15	200.8	
Cadmium, Total	<	2.00	UG/L	12/11/15	200.8	
Chromium, Total		5.70	UG/L	12/11/15	200.8	
Copper, Total		7.30	UG/L	12/11/15	200.8	
Lead, Total	<	5.00	UG/L	12/11/15	200.8	
Thallium, Total	<	1.00	UG/L	12/11/15	200.8	
Nickel, Total	<	10.0	UG/L	12/11/15	200.8	
Silver, Total	<	10.0	UG/L	12/11/15	200.8	
Zinc, Total		81.0	UG/L	12/11/15	200.8	
Antimony, Total	<	2.00	UG/L	12/11/15	200.8	
Selenium, Total	<	10.0	UG/L	12/11/15	200.8	
Mercury, Total	<	0.05	UG/L	12/17/15	200.8	

Summary

Labs performing analysis on this Sample:

Metals GCMS

SOURCE: WILCOX

COUNTY: CITY:

SAMPLERS COMMENTS:

WR-1; (b) (6); LW PROJECT ID DEQ-066587

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE TEMP = 2.7 C

ANALYST'S COMMENTS:

* ANALYST

Greg Goode
Greg Goode
State Environmental Laboratory

Disinfection of Individual Water Wells

A water well should be disinfected (1) when the well is newly drilled; (2) when repairs to the well or pumping equipment are completed; (3) when an unsafe sample has been reported or (4) after a disaster situation (for example after a flood or natural disaster), which has

impacted your home or business. Ordinary liquid laundry bleach may be used to disinfect a well. Liquid laundry bleach contains 5.25 percent chlorine. Do not use scented bleach as this will contaminate the well.

In order to disinfect a well:

1. Pump the well enough in advance to completely remove sediment and other debris caused by construction or repairs.
2. Add enough chlorine to make 50 to 100 parts per million solution (use table below).
3. Circulate the solution by pumping the discharge back into the well. This can be done by inserting a garden hose through the well seal at the top of the well and pumping until the chlorine is thoroughly mixed (at least fifteen minutes).
4. Open each water tap in the system until a strong chlorine odor is present, then close the tap. This will also disinfect the house service lines.
5. Let the chlorine stand for at least 24 hours, if possible, but no less than two hours.
6. Flush the system thoroughly.
7. Resample after a one-week period to allow for the possibility of bacterial regrowth.

If the sample has tested positive after disinfection, the well should once again be disinfected, allowing a greater stand/contact time for the chlorine. Resample after one week. Please write **'RETAKE'** in the Samplers' Remarks on the Chain of Custody.

The volume of laundry bleach needed to make a 50 parts per million (ppm) solution may be found on the table below if one knows the depth of the water in the well and the casing (pipe) size. This volume may be doubled to achieve a 100 ppm solution if desired. Further assistance

regarding disinfection of your well may be obtained from your local environmental specialist. Questions about the testing can be answered at the [State Environmental Lab](#) at (405) 702-1000 or 1-866-412-3057 or via email at selsd@deq.ok.gov.

Amount of Chlorine Bleach Needed

Well Diameter				
Depth of Well	3 in.	6 in.	9 in.	12 in.
50 ft.	3 oz.	8 oz.	25 oz.	50 oz.
100 ft.	6 oz.	20 oz.	50 oz.	100 oz.
150 ft.	8 oz.	30 oz.	75 oz.	150 oz.
8 oz. = 1 cup	25 oz. = 3 cups	50 oz. = 6 ¹ / ₄ cups	100 oz. = 12 ¹ / ₂ cups	150 oz. = 19 cups, 1 ¹ / ₄ gals.

SCOTT THOMPSON
EXECUTIVE DIRECTOR



OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
GOVERNOR

February 8th, 2016

(b) (6)

Dear Mr. and Mrs. (b) (6),

The Oklahoma Department of Environmental Quality (DEQ) sampled water from your house well on December 18th, 2015 as part of a reoccurring sampling event that will be performed approximately every six months. DEQ has offered this sampling to residents that live on, or adjacent to the Wilcox Oil Company Superfund Site. You are receiving this letter because you have provided DEQ permission to enter your property and collect a water sample from your well.

DEQ sampled for four types of contaminants in your private well. Those are: Biological (E. Coli and Total Coliform), Volatile Organic Compounds (VOCs), Semi-Volatile Organic Compounds (SVOCs) and Metals.

The first page of the sampling results is for E. Coli and Total Coliform Bacteria. E. Coli was not detected in your well as indicated by the "<" symbol in the Results column.

Total Coliform was detected in your well. DEQ recommends disinfection of your water well to address the presence of Total Coliform. Once disinfected, DEQ can resample your well to verify that the contaminant has been removed. See the attached instruction sheet on how to disinfect your well.

The second page of the sampling results is for VOCs. VOCs were not detected in your well as indicated by the "<" in the Results column.

Pages 3 through 5 of the sampling results are for SVOCs. SVOCs were not detected in your well as indicated by the "<" symbol in the Qualifier column.

The last page of the sampling results is for Metals. Several metals were detected (highlighted) at low concentrations, which is considered normal levels and are not considered to be a health risk.

If you have questions about this letter or the sampling data, do not hesitate to call me at (405) 702-5136. Please contact Katrina Higgins Coltrain with the U.S. Environmental Protection Agency at (214) 665-8143 with any questions about the EPA Superfund process or plans for the Wilcox Site.

Sincerely,

A handwritten signature in black ink that reads "W. Todd Downham". The signature is written in a cursive style with a long horizontal line extending from the end.

Todd Downham
Project Manager, Wilcox Oil Company Superfund Site



SCOTT THOMPSON
EXECUTIVE DIRECTOR

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
GOVERNOR

Land Protection Division
Oklahoma Department of Environmental Quality

c. Katrina Higgins Coltrain, U.S. EPA Dallas





State Environmental Laboratory Services Division

EPA DRINKING WATER CERTIFICATION #OK00013

General Inquiries: 1-866-412-3057

SAMPLE INFORMATION

Sample Number: 066587.003

Collected By: TD

Description:

(b) (6)

Collected: 12/8/15 11:15 am

Received: 12/8/15 4:09 pm

TEST RESULTS

Analysis: Total Coliforms

Analysis Method: SM 9223B

Component Name	Result	Unit	Qualifiers	Analyst	Analysis Date
E. Coli	<1.0	MPN/100 mL		BCD	12/9/15
Total Coliform	43.7	MPN/100 mL		BCD	12/9/15



State Environmental Laboratory Services Division

EPA DRINKING WATER CERTIFICATION #OK00013

General Inquiries: 1-866-412-3057

SAMPLE INFORMATION

Sample Number: 066587.004

Collected By: TD

Description: (b) (6)

Collected: 12/8/15 11:15 am

Received: 12/8/15 4:09 pm

TEST RESULTS

Analysis: Volatile Organic Compounds

Analysis Method: EPA 524.3

Component Name	Result	Unit	Qualifiers	Analyst	Analysis Date
1,1,1-Trichloroethane	<0.5	µg/L		SAR	12/9/15
1,1,2-Trichloroethane	<0.5	µg/L		SAR	12/9/15
1,1-Dichloroethene	<0.5	µg/L		SAR	12/9/15
1,2,4-Trichlorobenzene	<0.5	µg/L		SAR	12/9/15
1,2-Dichlorobenzene	<0.5	µg/L		SAR	12/9/15
1,2-Dichloroethane	<0.5	µg/L		SAR	12/9/15
1,2-Dichloropropane	<0.5	µg/L		SAR	12/9/15
1,4-Dichlorobenzene	<0.5	µg/L		SAR	12/9/15
Benzene	<0.5	µg/L		SAR	12/9/15
Carbon Tetrachloride	<0.5	µg/L		SAR	12/9/15
Chlorobenzene	<0.5	µg/L		SAR	12/9/15
cis-1,2-Dichloroethene	<0.5	µg/L		SAR	12/9/15
Ethylbenzene	<0.5	µg/L		SAR	12/9/15
Methyl tert-Butyl Ether (MtBE)	<0.5	µg/L		SAR	12/9/15
Methylene Chloride	<0.5	µg/L		SAR	12/9/15
Styrene	<0.5	µg/L		SAR	12/9/15
Tetrachloroethene	<0.5	µg/L		SAR	12/9/15
Toluene	<0.5	µg/L		SAR	12/9/15
trans-1,2-Dichloroethene	<0.5	µg/L		SAR	12/9/15
Trichloroethene	<0.5	µg/L		SAR	12/9/15
Vinyl Chloride	<0.5	µg/L		SAR	12/9/15
Xylenes	<0.5	µg/L		SAR	12/9/15

Sample Number: 547550
 Project Code: SW-WE
 Agency Number: 1195
 Date Collected: 12/8/2015
 Time Collected: 1115
 Date Received: 12/8/2015
 Date Completed: 12/15/2015
 Collected By: TD
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 12/15/2015

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
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 or selsd@deq.ok.gov
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 EPA Drinking Water Certification #OK00013

To: TODD DOWNHAM/LPD

CC: FILE COPY

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Dilution Factor, Extractab:		1.00		12/14/15		
Acenaphthylene	<	20.0	UG/L	12/14/15	8270DM	
Acenaphthene	<	20.0	UG/L	12/14/15	8270DM	
Anthracene	<	20.0	UG/L	12/14/15	8270DM	
Benzo(b)fluoranthene	<	20.0	UG/L	12/14/15	8270DM	
Benzo(k)fluoranthene	<	20.0	UG/L	12/14/15	8270DM	
Benzo(a)pyrene	<	20.0	UG/L	12/14/15	8270DM	
Bis(2-chloroethyl)ether	<	20.0	UG/L	12/14/15	8270DM	
Bis(2-chloroethoxy)methane	<	20.0	UG/L	12/14/15	8270DM	
Bis(2-chloroisopropyl)ethe:	<	20.0	UG/L	12/14/15	8270DM	
Butylbenzylphthalate	<	20.0	UG/L	12/14/15	8270DM	
Chrysene	<	20.0	UG/L	12/14/15	8270DM	
Diethylphthalate	<	20.0	UG/L	12/14/15	8270DM	
Dimethylphthalate	<	20.0	UG/L	12/14/15	8270DM	
Fluoranthene	<	20.0	UG/L	12/14/15	8270DM	
Fluorene	<	20.0	UG/L	12/14/15	8270DM	
Hexachlorocyclopentadiene	<	20.0	UG/L	12/14/15	8270DM	
Hexachloroethane in water	<	20.0	UG/L	12/14/15	8270DM	
Indeno(123cd)pyrene	<	20.0	UG/L	12/14/15	8270DM	
Isophorone	<	20.0	UG/L	12/14/15	8270DM	
Nitrosodipropylamine	<	20.0	UG/L	12/14/15	8270DM	
Nitrosodiphenylamine	<	20.0	UG/L	12/14/15	8270DM	
Nitrobenzene	<	20.0	UG/L	12/14/15	8270DM	
p-Chloro-m-cresol	<	20.0	UG/L	12/14/15	8270DM	
Phenanthrene	<	20.0	UG/L	12/14/15	8270DM	
Pyrene	<	20.0	UG/L	12/14/15	8270DM	
Benzo(ghi)perylene	<	20.0	UG/L	12/14/15	8270DM	
Benzo(a)anthracene	<	20.0	UG/L	12/14/15	8270DM	
1,2,4-Trichlorobenzene	<	20.0	UG/L	12/14/15	8270DM	
Dibenzo(ah)anthracene	<	20.0	UG/L	12/14/15	8270DM	
1,4-Dichlorobenzene	<	20.0	UG/L	12/14/15	8270DM	
2-Chloronaphthalene	<	20.0	UG/L	12/14/15	8270DM	
2-Chlorophenol	<	20.0	UG/L	12/14/15	8270DM	

Sample Number: 547550
 Project Code: SW-WE
 Agency Number: 1195
 Date Collected: 12/8/2015
 Time Collected: 1115
 Date Received: 12/8/2015
 Date Completed: 12/15/2015
 Collected By: TD
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 12/15/2015

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
 707 N. ROBINSON
 OKLAHOMA CITY
 OKLAHOMA, 73102-6010
 General Inquiries: 1-866-412-3057
 or selsd@deq.ok.gov

Report of Analysis by GCMS

EPA Drinking Water Certification #OK00013

To: TODD DOWNHAM/LPD

CC: FILE COPY

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
2-Nitrophenol	<	20.0	UG/L	12/14/15	8270DM	
Di-n-octylphthalate	<	20.0	UG/L	12/14/15	8270DM	
2,4-Dichlorophenol	<	20.0	UG/L	12/14/15	8270DM	
2,4-Dimethylphenol	<	20.0	UG/L	12/14/15	8270DM	
2,4-Dinitrotoluene	<	20.0	UG/L	12/14/15	8270DM	
2,4-Dinitrophenol	<	50.0	UG/L	12/14/15	8270DM	
2,4,6-Trichlorophenol	<	20.0	UG/L	12/14/15	8270DM	
2,6-Dinitrotoluene	<	20.0	UG/L	12/14/15	8270DM	
3,3'-Dichlorobenzidine	<	20.0	UG/L	12/14/15	8270DM	
4-Bromophenylphenyl ether	<	20.0	UG/L	12/14/15	8270DM	
4-Chlorophenyl phenylether	<	20.0	UG/L	12/14/15	8270DM	
4-Nitrophenol	<	50.0	UG/L	12/14/15	8270DM	
4,6-Dinitro-o-cresol	<	50.0	UG/L	12/14/15	8270DM	
Phenol	<	20.0	UG/L	12/14/15	8270DM	
Naphthalene	<	20.0	UG/L	12/14/15	8270DM	
Pentachlorophenol	<	50.0	UG/L	12/14/15	8270DM	
Bis(2-ethylhexyl)phthalate	<	20.0	UG/L	12/14/15	8270DM	
Di-n-butylphthalate	<	20.0	UG/L	12/14/15	8270DM	
Hexachlorobenzene	<	20.0	UG/L	12/14/15	8270DM	
Hexachlorobutadiene	<	20.0	UG/L	12/14/15	8270DM	
Dibenzofuran	<	20.0	UG/L	12/14/15	8270DM	
2-Methylnaphthalene	<	20.0	UG/L	12/14/15	8270DM	
2-Methylphenol	<	20.0	UG/L	12/14/15	8270DM	
4-Methylphenol	<	20.0	UG/L	12/14/15	8270DM	
2,4,5-Trichlorophenol	<	20.0	UG/L	12/14/15	8270DM	
4-Chloroaniline	<	20.0	UG/L	12/14/15	8270DM	
2-Nitroaniline	<	50.0	UG/L	12/14/15	8270DM	
3-Nitroaniline	<	50.0	UG/L	12/14/15	8270DM	
4-Nitroaniline	<	50.0	UG/L	12/14/15	8270DM	

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
PHENOL-D5		23
2-FLUOROPHENOL		37

Sample Number: 547550
Project Code: SW-WE
Agency Number: 1195
Date Collected: 12/8/2015
Time Collected: 1115
Date Received: 12/8/2015
Date Completed: 12/15/2015
Collected By: TD
PWS Id:
Location Code:
Station:
Facility:
Report Date: 12/15/2015

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OKLAHOMA, 73102-6010
General Inquiries: 1-866-412-3057
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Report of Analysis by GCMS

EPA Drinking Water Certification #OK00013

To: TODD DOWNHAM/LPD

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COMPOUND	SURROGATE RECOVERIES	RECOVERY %
P-TERPHENYL-D14		97
2,4,6-TRIBROMOPHENOL		94
NITROBENZENE-D5		73
2-FLUOROBIPHENYL		78

COMPOUND	TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH	VALUE	UNITS
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NU

Summary

Labs performing analysis on this Sample:

Metals GCMS

SOURCE: WILCOX

COUNTY: CITY:

SAMPLERS COMMENTS:

WR-2; (b) (6) LW PROJECT ID DEQ-066587

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE TEMP = 0.9 C

ANALYST'S COMMENTS:

Heather Rhoads (8270DM), (NU) No TICs (tentatively identified compounds) were detected above the lower limit of quantitation for this analysis.

* ANALYST

Heather Rhoads

Sample Number: 547550
Project Code: SW-WE
Agency Number: 1195
Date Collected: 12/8/2015
Time Collected: 1115
Date Received: 12/8/2015
Date Completed: 12/17/2015
Collected By: TD
PWS Id:
Location Code:
Station:
Facility:
Report Date: 12/17/2015

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
707 N. ROBINSON
OKLAHOMA CITY
OKLAHOMA, 73102-6010
General Inquiries: 1-866-412-3057
or selsd@deq.ok.gov

Report of Analysis by Metals
EPA Drinking Water Certification #OK00013

To: TODD DOWNHAM/LPD

CC: FILE COPY

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Arsenic, Total	<	2.00	UG/L	12/11/15	200.8	
Barium, Total	<	5.00	UG/L	12/11/15	200.8	
Beryllium, Total	<	2.00	UG/L	12/11/15	200.8	
Cadmium, Total	<	2.00	UG/L	12/11/15	200.8	
Chromium, Total	<	5.00	UG/L	12/11/15	200.8	
Copper, Total		14.8	UG/L	12/11/15	200.8	
Lead, Total	<	5.00	UG/L	12/11/15	200.8	
Thallium, Total	<	1.00	UG/L	12/11/15	200.8	
Nickel, Total	<	10.0	UG/L	12/11/15	200.8	
Silver, Total	<	10.0	UG/L	12/11/15	200.8	
Zinc, Total		12.5	UG/L	12/11/15	200.8	
Antimony, Total	<	2.00	UG/L	12/11/15	200.8	
Selenium, Total	<	10.0	UG/L	12/11/15	200.8	
Mercury, Total	<	0.05	UG/L	12/17/15	200.8	

Summary

Labs performing analysis on this Sample:

Metals GCMS

SOURCE: WILCOX

COUNTY: CITY:

SAMPLERS COMMENTS:

WR-2; (b) (6) LW PROJECT ID DEQ-066587

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE TEMP = 0.9 C

ANALYST'S COMMENTS:

* ANALYST

Greg Goode
Greg Goode
State Environmental Laboratory

Disinfection of Individual Water Wells

A water well should be disinfected (1) when the well is newly drilled; (2) when repairs to the well or pumping equipment are completed; (3) when an unsafe sample has been reported or (4) after a disaster situation (for example after a flood or natural disaster), which has

impacted your home or business. Ordinary liquid laundry bleach may be used to disinfect a well. Liquid laundry bleach contains 5.25 percent chlorine. Do not use scented bleach as this will contaminate the well.

In order to disinfect a well:

1. Pump the well enough in advance to completely remove sediment and other debris caused by construction or repairs.
2. Add enough chlorine to make 50 to 100 parts per million solution (use table below).
3. Circulate the solution by pumping the discharge back into the well. This can be done by inserting a garden hose through the well seal at the top of the well and pumping until the chlorine is thoroughly mixed (at least fifteen minutes).
4. Open each water tap in the system until a strong chlorine odor is present, then close the tap. This will also disinfect the house service lines.
5. Let the chlorine stand for at least 24 hours, if possible, but no less than two hours.
6. Flush the system thoroughly.
7. Resample after a one-week period to allow for the possibility of bacterial regrowth.

If the sample has tested positive after disinfection, the well should once again be disinfected, allowing a greater stand/contact time for the chlorine. Resample after one week. Please write **'RETAKE'** in the Samplers' Remarks on the Chain of Custody.

The volume of laundry bleach needed to make a 50 parts per million (ppm) solution may be found on the table below if one knows the depth of the water in the well and the casing (pipe) size. This volume may be doubled to achieve a 100 ppm solution if desired. Further assistance

regarding disinfection of your well may be obtained from your local environmental specialist. Questions about the testing can be answered at the [State Environmental Lab](#) at (405) 702-1000 or 1-866-412-3057 or via email at selsd@deq.ok.gov.

Amount of Chlorine Bleach Needed

Well Diameter				
Depth of Well	3 in.	6 in.	9 in.	12 in.
50 ft.	3 oz.	8 oz.	25 oz.	50 oz.
100 ft.	6 oz.	20 oz.	50 oz.	100 oz.
150 ft.	8 oz.	30 oz.	75 oz.	150 oz.
8 oz. = 1 cup	25 oz. = 3 cups	50 oz. = 6 ¹ / ₄ cups	100 oz. = 12 ¹ / ₂ cups	150 oz. = 19 cups, 1 ¹ / ₄ gals.

SCOTT THOMPSON
EXECUTIVE DIRECTOR



OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
GOVERNOR

February 8th, 2016

(b) (6)

Dear Ms. (b) (6),

The Oklahoma Department of Environmental Quality (DEQ) sampled water from your house well on December 18th, 2015 as part of a reoccurring sampling event that will be performed approximately every six months. DEQ has offered this sampling to residents that live on, or adjacent to the Wilcox Oil Company Superfund Site. You are receiving this letter because you have provided DEQ permission to enter your property and collect a water sample from your well.

DEQ sampled for four types of contaminants in your private well. Those are: Biological (E.Coli and Total Coliform), Volatile Organic Compounds (VOCs), Semi-Volatile Organic Compounds (SVOCs) and Metals.

The first page of the sampling results is for E. Coli and Total Coliform Bacteria. E. Coli was not detected in your well as indicated by the "<" symbol in the Results column.

Total Coliform was detected in your well. DEQ recommends disinfection of your water well to address the presence of Total Coliform. Once disinfected, DEQ can resample your well to verify that the contaminant has been removed. See the attached instruction sheet on how to disinfect your well.

The second page of the sampling results is for VOCs. VOCs were not detected in your well as indicated by the "<" in the Results column.

Pages 3 through 5 of the sampling results are for SVOCs. SVOCs were not detected in your well as indicated by the "<" symbol in the Qualifier column.

The last page of the sampling results is for Metals. Several metals were detected (highlighted) at low concentrations, which is considered normal levels and are not considered to be a health risk.

If you have questions about this letter or the sampling data, do not hesitate to call me at (405) 702-5136. Please contact Katrina Higgins Coltrain with the U.S. Environmental Protection Agency at (214) 665-8143 with any questions about the EPA Superfund process or plans for the Wilcox Site.

Sincerely,

A handwritten signature in black ink that reads "W. Todd Downham". The signature is written in a cursive, flowing style.

Todd Downham
Project Manager, Wilcox Oil Company Superfund Site



SCOTT THOMPSON
EXECUTIVE DIRECTOR

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
GOVERNOR

Land Protection Division
Oklahoma Department of Environmental Quality

c. Katrina Higgins Coltrain, U.S. EPA Dallas





State Environmental Laboratory Services Division

EPA DRINKING WATER CERTIFICATION #OK00013

General Inquiries: 1-866-412-3057

SAMPLE INFORMATION

Sample Number: 066587.005

Collected By: TD

Description: (b) (6)

Collected: 12/8/15 12:00 pm

Received: 12/8/15 4:09 pm

TEST RESULTS

Analysis: Total Coliforms

Analysis Method: SM 9223B

Component Name	Result	Unit	Qualifiers	Analyst	Analysis Date
E. Coli	<1.0	MPN/100 mL		BCD	12/9/15
Total Coliform	1.0	MPN/100 mL		BCD	12/9/15



State Environmental Laboratory Services Division

EPA DRINKING WATER CERTIFICATION #OK00013

General Inquiries: 1-866-412-3057

SAMPLE INFORMATION

Sample Number: 066587.006

Collected By: TD

Description: (b) (6)

Collected: 12/8/15 12:00 pm

Received: 12/8/15 4:09 pm

TEST RESULTS

Analysis: Volatile Organic Compounds

Analysis Method: EPA 524.3

Component Name	Result	Unit	Qualifiers	Analyst	Analysis Date
1,1,1-Trichloroethane	<0.5	µg/L		SAR	12/9/15
1,1,2-Trichloroethane	<0.5	µg/L		SAR	12/9/15
1,1-Dichloroethene	<0.5	µg/L		SAR	12/9/15
1,2,4-Trichlorobenzene	<0.5	µg/L		SAR	12/9/15
1,2-Dichlorobenzene	<0.5	µg/L		SAR	12/9/15
1,2-Dichloroethane	<0.5	µg/L		SAR	12/9/15
1,2-Dichloropropane	<0.5	µg/L		SAR	12/9/15
1,4-Dichlorobenzene	<0.5	µg/L		SAR	12/9/15
Benzene	<0.5	µg/L		SAR	12/9/15
Carbon Tetrachloride	<0.5	µg/L		SAR	12/9/15
Chlorobenzene	<0.5	µg/L		SAR	12/9/15
cis-1,2-Dichloroethene	<0.5	µg/L		SAR	12/9/15
Ethylbenzene	<0.5	µg/L		SAR	12/9/15
Methyl tert-Butyl Ether (MtBE)	<0.5	µg/L		SAR	12/9/15
Methylene Chloride	<0.5	µg/L		SAR	12/9/15
Styrene	<0.5	µg/L		SAR	12/9/15
Tetrachloroethene	<0.5	µg/L		SAR	12/9/15
Toluene	<0.5	µg/L		SAR	12/9/15
trans-1,2-Dichloroethene	<0.5	µg/L		SAR	12/9/15
Trichloroethene	<0.5	µg/L		SAR	12/9/15
Vinyl Chloride	<0.5	µg/L		SAR	12/9/15
Xylenes	<0.5	µg/L		SAR	12/9/15

Sample Number: 547551
 Project Code: SW-WE
 Agency Number: 1195
 Date Collected: 12/8/2015
 Time Collected: 1200
 Date Received: 12/8/2015
 Date Completed: 12/15/2015
 Collected By: TD
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 12/15/2015

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
 707 N. ROBINSON
 OKLAHOMA CITY
 OKLAHOMA, 73102-6010
 General Inquiries: 1-866-412-3057
 or seisd@deq.ok.gov

Report of Analysis by GCMS

EPA Drinking Water Certification #CK00013

To: TODD DOWNHAM/LPD

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Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Dilution Factor, Extractab:		1.00		12/14/15		
Acenaphthylene	<	20.0	UG/L	12/14/15	8270DM	
Acenaphthene	<	20.0	UG/L	12/14/15	8270DM	
Anthracene	<	20.0	UG/L	12/14/15	8270DM	
Benzo(b)fluoranthene	<	20.0	UG/L	12/14/15	8270DM	
Benzo(k)fluoranthene	<	20.0	UG/L	12/14/15	8270DM	
Benzo(a)pyrene	<	20.0	UG/L	12/14/15	8270DM	
Bis(2-chloroethyl)ether	<	20.0	UG/L	12/14/15	8270DM	
Bis(2-chloroethoxy)methane	<	20.0	UG/L	12/14/15	8270DM	
Bis(2-chloroisopropyl)ethe	<	20.0	UG/L	12/14/15	8270DM	
Butylbenzylphthalate	<	20.0	UG/L	12/14/15	8270DM	
Chrysene	<	20.0	UG/L	12/14/15	8270DM	
Diethylphthalate	<	20.0	UG/L	12/14/15	8270DM	
Dimethylphthalate	<	20.0	UG/L	12/14/15	8270DM	
Fluoranthene	<	20.0	UG/L	12/14/15	8270DM	
Fluorene	<	20.0	UG/L	12/14/15	8270DM	
Hexachlorocyclopentadiene	<	20.0	UG/L	12/14/15	8270DM	
Hexachloroethane in water	<	20.0	UG/L	12/14/15	8270DM	
Indeno(123cd)pyrene	<	20.0	UG/L	12/14/15	8270DM	
Isophorone	<	20.0	UG/L	12/14/15	8270DM	
Nitrosodipropylamine	<	20.0	UG/L	12/14/15	8270DM	
Nitrosodiphenylamine	<	20.0	UG/L	12/14/15	8270DM	
Nitrobenzene	<	20.0	UG/L	12/14/15	8270DM	
p-Chloro-m-cresol	<	20.0	UG/L	12/14/15	8270DM	
Phenanthrene	<	20.0	UG/L	12/14/15	8270DM	
Pyrene	<	20.0	UG/L	12/14/15	8270DM	
Benzo(ghi)perylene	<	20.0	UG/L	12/14/15	8270DM	
Benzo(a)anthracene	<	20.0	UG/L	12/14/15	8270DM	
1,2,4-Trichlorobenzene	<	20.0	UG/L	12/14/15	8270DM	
Dibenzo(ah)anthracene	<	20.0	UG/L	12/14/15	8270DM	
1,4-Dichlorobenzene	<	20.0	UG/L	12/14/15	8270DM	
2-Chloronaphthalene	<	20.0	UG/L	12/14/15	8270DM	
2-Chlorophenol	<	20.0	UG/L	12/14/15	8270DM	

Sample Number: 547551
 Project Code: SW-WE
 Agency Number: 1195
 Date Collected: 12/8/2015
 Time Collected: 1200
 Date Received: 12/8/2015
 Date Completed: 12/15/2015
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Report of Analysis by GCMS

EPA Drinking Water Certification: #OK00013

To: TODD DOWNHAM/LPD

CC: FILE COPY

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
2-Nitrophenol	<	20.0	UG/L	12/14/15	8270DM	
Di-n-octylphthalate	<	20.0	UG/L	12/14/15	8270DM	
2,4-Dichlorophenol	<	20.0	UG/L	12/14/15	8270DM	
2,4-Dimethylphenol	<	20.0	UG/L	12/14/15	8270DM	
2,4-Dinitrotoluene	<	20.0	UG/L	12/14/15	8270DM	
2,4-Dinitrophenol	<	50.0	UG/L	12/14/15	8270DM	
2,4,6-Trichlorophenol	<	20.0	UG/L	12/14/15	8270DM	
2,6-Dinitrotoluene	<	20.0	UG/L	12/14/15	8270DM	
3,3'-Dichlorobenzidine	<	20.0	UG/L	12/14/15	8270DM	
4-Bromophenylphenyl ether	<	20.0	UG/L	12/14/15	8270DM	
4-Chlorophenyl phenylether	<	20.0	UG/L	12/14/15	8270DM	
4-Nitrophenol	<	50.0	UG/L	12/14/15	8270DM	
4,6-Dinitro-o-cresol	<	50.0	UG/L	12/14/15	8270DM	
Phenol	<	20.0	UG/L	12/14/15	8270DM	
Naphthalene	<	20.0	UG/L	12/14/15	8270DM	
Pentachlorophenol	<	50.0	UG/L	12/14/15	8270DM	
Bis(2-ethylhexyl)phthalate	<	20.0	UG/L	12/14/15	8270DM	
Di-n-butylphthalate	<	20.0	UG/L	12/14/15	8270DM	
Hexachlorobenzene	<	20.0	UG/L	12/14/15	8270DM	
Hexachlorobutadiene	<	20.0	UG/L	12/14/15	8270DM	
Dibenzofuran	<	20.0	UG/L	12/14/15	8270DM	
2-Methylnaphthalene	<	20.0	UG/L	12/14/15	8270DM	
2-Methylphenol	<	20.0	UG/L	12/14/15	8270DM	
4-Methylphenol	<	20.0	UG/L	12/14/15	8270DM	
2,4,5-Trichlorophenol	<	20.0	UG/L	12/14/15	8270DM	
4-Chloroaniline	<	20.0	UG/L	12/14/15	8270DM	
2-Nitroaniline	<	50.0	UG/L	12/14/15	8270DM	
3-Nitroaniline	<	50.0	UG/L	12/14/15	8270DM	
4-Nitroaniline	<	50.0	UG/L	12/14/15	8270DM	

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
2-FLUOROPHENOL		36
PHENOL-D5		23

Sample Number: 547551
Project Code: SW-WE
Agency Number: 1195
Date Collected: 12/8/2015
Time Collected: 1200
Date Received: 12/8/2015
Date Completed: 12/15/2015
Collected By: TD
PWS Id:
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STATE ENVIRONMENTAL LABORATORY
707 N. ROBINSON
OKLAHOMA CITY
OKLAHOMA, 73102-6010
General Inquiries: 1-866-412-3057
or selsd@deq.ok.gov
Report of Analysis by GCMS
EPA Drinking Water Certification #OKD0012

To: TODD DOWNHAM/LPD

CC: FILE COPY

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
NITROBENZENE-D5		77
P-TERPHENYL-D14		103
2,4,6-TRIBROMOPHENOL		118
2-FLUOROBIPHENYL		82

COMPOUND	TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH	VALUE	UNITS
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NU

Summary

Labs performing analysis on this Sample:

Metals GCMS

SOURCE: WILCOX

COUNTY: CITY:

SAMPLERS COMMENTS:

WR-3; (b) (6) LW PROJECT ID DEQ-066587

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE TEMP = 0.4 C

ANALYST'S COMMENTS:

Heather Rhoads (8270DM), (NU) No TICs (tentatively identified compounds) were detected above the lower limit of quantitation for this analysis.

* ANALYST

Heather Rhoads

Sample Number: 547551
Project Code: SW-WE
Agency Number: 1195
Date Collected: 12/8/2015
Time Collected: 1200
Date Received: 12/8/2015
Date Completed: 12/17/2015
Collected By: TD
PWS Id:
Location Code:
Station:
Facility:
Report Date: 12/17/2015

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
707 N. ROBINSON
OKLAHOMA CITY
OKLAHOMA, 73102-6010
General Inquiries: 1-866-412-3057
or selsd@deq.ok.gov

Report of Analysis by Metals
EPA Drinking Water Certification #OK00013

To: TODD DOWNHAM/LPD

CC: FILE COPY

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Arsenic, Total	<	2.00	UG/L	12/11/15	200.8	
Barium, Total		36.1	UG/L	12/11/15	200.8	
Beryllium, Total	<	2.00	UG/L	12/11/15	200.8	
Cadmium, Total	<	2.00	UG/L	12/11/15	200.8	
Chromium, Total	<	5.00	UG/L	12/11/15	200.8	
Copper, Total	<	5.00	UG/L	12/11/15	200.8	
Lead, Total	<	5.00	UG/L	12/11/15	200.8	
Thallium, Total	<	1.00	UG/L	12/11/15	200.8	
Nickel, Total	<	10.0	UG/L	12/11/15	200.8	
Silver, Total	<	10.0	UG/L	12/11/15	200.8	
Zinc, Total	<	10.0	UG/L	12/11/15	200.8	
Antimony, Total	<	2.00	UG/L	12/11/15	200.8	
Selenium, Total	<	10.0	UG/L	12/11/15	200.8	
Mercury, Total	<	0.05	UG/L	12/17/15	200.8	

Summary

Labs performing analysis on this Sample:

Metals GCMS

SOURCE: WILCOX

COUNTY: CITY:

SAMPLERS COMMENTS:

WR-3; (b) (6) LW PROJECT ID DEQ-066587

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE TEMP = 0.4 C

ANALYST'S COMMENTS:

* ANALYST

Greg Goode
Greg Goode
State Environmental Laboratory

Disinfection of Individual Water Wells

A water well should be disinfected (1) when the well is newly drilled; (2) when repairs to the well or pumping equipment are completed; (3) when an unsafe sample has been reported or (4) after a disaster situation (for example after a flood or natural disaster), which has

impacted your home or business. Ordinary liquid laundry bleach may be used to disinfect a well. Liquid laundry bleach contains 5.25 percent chlorine. Do not use scented bleach as this will contaminate the well.

In order to disinfect a well:

1. Pump the well enough in advance to completely remove sediment and other debris caused by construction or repairs.
2. Add enough chlorine to make 50 to 100 parts per million solution (use table below).
3. Circulate the solution by pumping the discharge back into the well. This can be done by inserting a garden hose through the well seal at the top of the well and pumping until the chlorine is thoroughly mixed (at least fifteen minutes).
4. Open each water tap in the system until a strong chlorine odor is present, then close the tap. This will also disinfect the house service lines.
5. Let the chlorine stand for at least 24 hours, if possible, but no less than two hours.
6. Flush the system thoroughly.
7. Resample after a one-week period to allow for the possibility of bacterial regrowth.

If the sample has tested positive after disinfection, the well should once again be disinfected, allowing a greater stand/contact time for the chlorine. Resample after one week. Please write **'RETAKE'** in the Samplers' Remarks on the Chain of Custody.

The volume of laundry bleach needed to make a 50 parts per million (ppm) solution may be found on the table below if one knows the depth of the water in the well and the casing (pipe) size. This volume may be doubled to achieve a 100 ppm solution if desired. Further assistance

regarding disinfection of your well may be obtained from your local environmental specialist. Questions about the testing can be answered at the [State Environmental Lab](#) at (405) 702-1000 or 1-866-412-3057 or via email at selsd@deq.ok.gov.

Amount of Chlorine Bleach Needed

Depth of Well	Well Diameter			
	3 in.	6 in.	9 in.	12 in.
50 ft.	3 oz.	8 oz.	25 oz.	50 oz.
100 ft.	6 oz.	20 oz.	50 oz.	100 oz.
150 ft.	8 oz.	30 oz.	75 oz.	150 oz.
8 oz. = 1 cup	25 oz. = 3 cups	50 oz. = 6 ^{1/4} cups	100 oz. = 12 ^{1/2} cups	150 oz. = 19 cups, 1 ^{1/4} gals.

SCOTT THOMPSON
EXECUTIVE DIRECTOR



OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
GOVERNOR

February 8th, 2016

(b) (6)

Dear Mr. and Mrs. (b) (6)

The Oklahoma Department of Environmental Quality (DEQ) sampled water from your house well on December 18th, 2015 as part of a reoccurring sampling event that will be performed approximately every six months. DEQ has offered this sampling to residents that live on, or adjacent to the Wilcox Oil Company Superfund Site. You are receiving this letter because you have provided DEQ permission to enter your property and collect a water sample from your well.

DEQ sampled for four types of contaminants in your private well. Those are: Biological (E.Coli and Total Coliform), Volatile Organic Compounds (VOCs), Semi-Volatile Organic Compounds (SVOCs) and Metals.

The first page of the sampling results is for E. Coli and Total Coliform Bacteria. E. Coli and Total Coliform were not detected in your well as indicated by the "<" symbol in the Results column.

The second of the sampling results is for VOCs. VOCs were not detected in your well as indicated by the "<" in the Results column.

Pages 3 through 5 of the sampling results are for SVOCs. SVOCs were not detected in your well as indicated by the "<" symbol in the Qualifier column.

The last page of the sampling results is for Metals. Several metals were detected (highlighted) at low concentrations, which is considered normal levels and are not considered to be a health risk.

If you have questions about this letter or the sampling data, do not hesitate to call me at (405) 702-5136. Please contact Katrina Higgins Coltrain with the U.S. Environmental Protection Agency at (214) 665-8143 with any questions about the EPA Superfund process or plans for the Wilcox Site.

Sincerely,

A handwritten signature in black ink that reads "W. Todd Downham". The signature is written in a cursive style with a long, sweeping underline.

Todd Downham
Project Manager, Wilcox Oil Company Superfund Site
Land Protection Division
Oklahoma Department of Environmental Quality

c. Katrina Higgins Coltrain, U.S. EPA Dallas



State Environmental Laboratory Services Division

EPA DRINKING WATER CERTIFICATION #OK00013

General Inquiries: 1-866-412-3057

SAMPLE INFORMATION

Sample Number: 066587.007

Collected By: TD

Description:

(b) (6)

Collected: 12/8/15 11:25 am

Received: 12/8/15 4:09 pm

TEST RESULTS

Analysis: Total Coliforms

Analysis Method: SM 9223B

Component Name	Result	Unit	Qualifiers	Analyst	Analysis Date
E. Coli	<1.0	MPN/100 mL		BCD	12/9/15
Total Coliform	<1.0	MPN/100 mL		BCD	12/9/15



State Environmental Laboratory Services Division

EPA DRINKING WATER CERTIFICATION #OK00013

General Inquiries: 1-866-412-3057

SAMPLE INFORMATION

Sample Number: 066587.008

Collected By: TD

Description: (b) (6)

Collected: 12/8/15 11:25 am

Received: 12/8/15 4:09 pm

TEST RESULTS

Analysis: Volatile Organic Compounds

Analysis Method: EPA 524.3

Component Name	Result	Unit	Qualifiers	Analyst	Analysis Date
1,1,1-Trichloroethane	<0.5	µg/L		SAR	12/9/15
1,1,2-Trichloroethane	<0.5	µg/L		SAR	12/9/15
1,1-Dichloroethene	<0.5	µg/L		SAR	12/9/15
1,2,4-Trichlorobenzene	<0.5	µg/L		SAR	12/9/15
1,2-Dichlorobenzene	<0.5	µg/L		SAR	12/9/15
1,2-Dichloroethane	<0.5	µg/L		SAR	12/9/15
1,2-Dichloropropane	<0.5	µg/L		SAR	12/9/15
1,4-Dichlorobenzene	<0.5	µg/L		SAR	12/9/15
Benzene	<0.5	µg/L		SAR	12/9/15
Carbon Tetrachloride	<0.5	µg/L		SAR	12/9/15
Chlorobenzene	<0.5	µg/L		SAR	12/9/15
cis-1,2-Dichloroethene	<0.5	µg/L		SAR	12/9/15
Ethylbenzene	<0.5	µg/L		SAR	12/9/15
Methyl tert-Butyl Ether (MtBE)	<0.5	µg/L		SAR	12/9/15
Methylene Chloride	<0.5	µg/L		SAR	12/9/15
Styrene	<0.5	µg/L		SAR	12/9/15
Tetrachloroethene	<0.5	µg/L		SAR	12/9/15
Toluene	<0.5	µg/L		SAR	12/9/15
trans-1,2-Dichloroethene	<0.5	µg/L		SAR	12/9/15
Trichloroethene	<0.5	µg/L		SAR	12/9/15
Vinyl Chloride	<0.5	µg/L		SAR	12/9/15
Xylenes	<0.5	µg/L		SAR	12/9/15

Sample Number: 547552
 Project Code: SW-WE
 Agency Number: 1195
 Date Collected: 12/8/2015
 Time Collected: 1125
 Date Received: 12/8/2015
 Date Completed: 12/15/2015
 Collected By: TD
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 12/15/2015

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
 707 N. ROBINSON
 OKLAHOMA CITY
 OKLAHOMA, 73102-6010
 General Inquiries: 1-866-412-3057
 or selsd@deq.ok.gov
Report of Analysis by GCMS
 EPA Drinking Water Certification #OK05913

To: TODD DOWNHAM/LPD

CC: FILE COPY

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Dilution Factor, Extractab:		1.00		12/14/15		
Acenaphthylene	<	20.0	UG/L	12/14/15	8270DM	
Acenaphthene	<	20.0	UG/L	12/14/15	8270DM	
Anthracene	<	20.0	UG/L	12/14/15	8270DM	
Benzo(b)fluoranthene	<	20.0	UG/L	12/14/15	8270DM	
Benzo(k)fluoranthene	<	20.0	UG/L	12/14/15	8270DM	
Benzo(a)pyrene	<	20.0	UG/L	12/14/15	8270DM	
Bis(2-chloroethyl)ether	<	20.0	UG/L	12/14/15	8270DM	
Bis(2-chloroethoxy)methane	<	20.0	UG/L	12/14/15	8270DM	
Bis(2-chloroisopropyl)ethe:	<	20.0	UG/L	12/14/15	8270DM	
Butylbenzylphthalate	<	20.0	UG/L	12/14/15	8270DM	
Chrysene	<	20.0	UG/L	12/14/15	8270DM	
Diethylphthalate	<	20.0	UG/L	12/14/15	8270DM	
Dimethylphthalate	<	20.0	UG/L	12/14/15	8270DM	
Fluoranthene	<	20.0	UG/L	12/14/15	8270DM	
Fluorene	<	20.0	UG/L	12/14/15	8270DM	
Hexachlorocyclopentadiene	<	20.0	UG/L	12/14/15	8270DM	
Hexachloroethane in water	<	20.0	UG/L	12/14/15	8270DM	
Indeno(123cd)pyrene	<	20.0	UG/L	12/14/15	8270DM	
Isophorone	<	20.0	UG/L	12/14/15	8270DM	
Nitrosodipropylamine	<	20.0	UG/L	12/14/15	8270DM	
Nitrosodiphenylamine	<	20.0	UG/L	12/14/15	8270DM	
Nitrobenzene	<	20.0	UG/L	12/14/15	8270DM	
p-Chloro-m-cresol	<	20.0	UG/L	12/14/15	8270DM	
Phenanthrene	<	20.0	UG/L	12/14/15	8270DM	
Pyrene	<	20.0	UG/L	12/14/15	8270DM	
Benzo(ghi)perylene	<	20.0	UG/L	12/14/15	8270DM	
Benzo(a)anthracene	<	20.0	UG/L	12/14/15	8270DM	
1,2,4-Trichlorobenzene	<	20.0	UG/L	12/14/15	8270DM	
Dibenzo(ah)anthracene	<	20.0	UG/L	12/14/15	8270DM	
1,4-Dichlorobenzene	<	20.0	UG/L	12/14/15	8270DM	
2-Chloronaphthalene	<	20.0	UG/L	12/14/15	8270DM	
2-Chlorophenol	<	20.0	UG/L	12/14/15	8270DM	

Sample Number: 547552
 Project Code: SW-WE
 Agency Number: 1195
 Date Collected: 12/8/2015
 Time Collected: 1125
 Date Received: 12/8/2015
 Date Completed: 12/15/2015
 Collected By: TD
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 12/15/2015

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
 707 N. ROBINSON
 OKLAHOMA CITY
 OKLAHOMA, 73102-6010
 General Inquiries: 1-866-412-3057
 or selsd@deq.ok.gov

Report of Analysis by GCMS

EPA Drinking Water Certification #OK00013

To: TODD DOWNHAM/LPD

CC: FILE COPY

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
2-Nitrophenol	^	20.0	UG/L	12/14/15	8270DM	
Di-n-octylphthalate	^	20.0	UG/L	12/14/15	8270DM	
2,4-Dichlorophenol	^	20.0	UG/L	12/14/15	8270DM	
2,4-Dimethylphenol	^	20.0	UG/L	12/14/15	8270DM	
2,4-Dinitrotoluene	^	20.0	UG/L	12/14/15	8270DM	
2,4-Dinitrophenol	^	50.0	UG/L	12/14/15	8270DM	
2,4,6-Trichlorophenol	^	20.0	UG/L	12/14/15	8270DM	
2,6-Dinitrotoluene	^	20.0	UG/L	12/14/15	8270DM	
3,3'-Dichlorobenzidine	^	20.0	UG/L	12/14/15	8270DM	
4-Bromophenylphenyl ether	^	20.0	UG/L	12/14/15	8270DM	
4-Chlorophenyl phenylether	^	20.0	UG/L	12/14/15	8270DM	
4-Nitrophenol	^	50.0	UG/L	12/14/15	8270DM	
4,6-Dinitro-o-cresol	^	50.0	UG/L	12/14/15	8270DM	
Phenol	^	20.0	UG/L	12/14/15	8270DM	
Naphthalene	^	20.0	UG/L	12/14/15	8270DM	
Pentachlorophenol	^	50.0	UG/L	12/14/15	8270DM	
Bis(2-ethylhexyl)phthalate	^	20.0	UG/L	12/14/15	8270DM	
Di-n-butylphthalate	^	20.0	UG/L	12/14/15	8270DM	
Hexachlorobenzene	^	20.0	UG/L	12/14/15	8270DM	
Hexachlorobutadiene	^	20.0	UG/L	12/14/15	8270DM	
Dibenzofuran	^	20.0	UG/L	12/14/15	8270DM	
2-Methylnaphthalene	^	20.0	UG/L	12/14/15	8270DM	
2-Methylphenol	^	20.0	UG/L	12/14/15	8270DM	
4-Methylphenol	^	20.0	UG/L	12/14/15	8270DM	
2,4,5-Trichlorophenol	^	20.0	UG/L	12/14/15	8270DM	
4-Chloroaniline	^	20.0	UG/L	12/14/15	8270DM	
2-Nitroaniline	^	50.0	UG/L	12/14/15	8270DM	
3-Nitroaniline	^	50.0	UG/L	12/14/15	8270DM	
4-Nitroaniline	^	50.0	UG/L	12/14/15	8270DM	

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
NITROBENZENE-D5		76
2-FLUOROPHENOL		38

Sample Number: 547552
Project Code: SW-WE
Agency Number: 1195
Date Collected: 12/8/2015
Time Collected: 1125
Date Received: 12/8/2015
Date Completed: 12/15/2015
Collected By: TD
PWS Id:
Location Code:
Station:
Facility:
Report Date: 12/15/2015

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
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OKLAHOMA CITY
OKLAHOMA, 73102-6010
General Inquiries: 1-866-412-3057
or selsd@deq.ok.gov
Report of Analysis by GCMS
EPA Drinking Water Certification #OK00013

To: TODD DOWNHAM/LPD

CC: FILE COPY

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
PHENOL-D5		24
P-TERPHENYL-D14		92
2,4,6-TRIBROMOPHENOL		98
2-FLUOROBIPHENYL		80

COMPOUND	TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH	VALUE	UNITS
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NU

Summary

Labs performing analysis on this Sample:

Metals GCMS

SOURCE: WILCOX

COUNTY: CITY:

SAMPLERS COMMENTS:

WR-4; (b) (6); LW PROJECT ID DEQ-066587

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE TEMP = 0.8 C

ANALYST'S COMMENTS:

Heather Rhoads (8270DM), (NU) No TICs (tentatively identified compounds) were detected above the lower limit of quantitation for this analysis.

* ANALYST

Heather Rhoads

Sample Number: 547552
Project Code: SW-WE
Agency Number: 1195
Date Collected: 12/8/2015
Time Collected: 1125
Date Received: 12/8/2015
Date Completed: 12/17/2015
Collected By: TD
PWS Id:
Location Code:
Station:
Facility:
Report Date: 12/17/2015

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Report of Analysis by Metals
EPA Drinking Water Certification #OK00013

To: TODD DOWNHAM/LPD

CC: FILE COPY

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Arsenic, Total	<	2.00	UG/L	12/11/15	200.8	
Barium, Total		19.8	UG/L	12/11/15	200.8	
Beryllium, Total	<	2.00	UG/L	12/11/15	200.8	
Cadmium, Total	<	2.00	UG/L	12/11/15	200.8	
Chromium, Total	<	5.00	UG/L	12/11/15	200.8	
Copper, Total		9.80	UG/L	12/11/15	200.8	
Lead, Total	<	5.00	UG/L	12/11/15	200.8	
Thallium, Total	<	1.00	UG/L	12/11/15	200.8	
Nickel, Total	<	10.0	UG/L	12/11/15	200.8	
Silver, Total	<	10.0	UG/L	12/11/15	200.8	
Zinc, Total		10.3	UG/L	12/11/15	200.8	
Antimony, Total	<	2.00	UG/L	12/11/15	200.8	
Selenium, Total	<	10.0	UG/L	12/11/15	200.8	
Mercury, Total	<	0.05	UG/L	12/17/15	200.8	

Summary

Labs performing analysis on this Sample:

Metals GCMS

SOURCE: WILCOX

COUNTY: CITY:

SAMPLERS COMMENTS:

WR-4; (b) (6) LW PROJECT ID DEQ-066587

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE TEMP = 0.8 C

ANALYST'S COMMENTS:

* ANALYST

Greg Goode
Greg Goode
State Environmental Laboratory

SCOTT THOMPSON
EXECUTIVE DIRECTOR



OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
GOVERNOR

February 8th, 2016

(b) (6)

Dear Mr. and Mrs. (b) (6),

The Oklahoma Department of Environmental Quality (DEQ) sampled water from your house well on December 18th, 2015 as part of a reoccurring sampling event that will be performed approximately every six months. DEQ has offered this sampling to residents that live on, or adjacent to the Wilcox Oil Company Superfund Site. You are receiving this letter because you have provided DEQ permission to enter your property and collect a water sample from your well.

DEQ sampled for four types of contaminants in your private well. Those are: Biological (E.Coli and Total Coliform), Volatile Organic Compounds (VOCs), Semi-Volatile Organic Compounds (SVOCs) and Metals.

The first page of the sampling results is for E. Coli and Total Coliform Bacteria. E. Coli and Total Coliform were not detected in your well as indicated by the "<" symbol in the Results column.

The second of the sampling results is for VOCs. VOCs were not detected in your well as indicated by the "<" in the Results column.

Pages 3 through 5 of the sampling results are for SVOCs. SVOCs were not detected in your well as indicated by the "<" symbol in the Qualifier column.

The last page of the sampling results is for Metals. Several metals were detected (highlighted) at low concentrations, which is considered normal levels and are not considered to be a health risk.

If you have questions about this letter or the sampling data, do not hesitate to call me at (405) 702-5136. Please contact Katrina Higgins Coltrain with the U.S. Environmental Protection Agency at (214) 665-8143 with any questions about the EPA Superfund process or plans for the Wilcox Site.

Sincerely,

A handwritten signature in black ink that reads "W. Todd Downham". The signature is written in a cursive style with a long, sweeping underline.

Todd Downham
Project Manager, Wilcox Oil Company Superfund Site
Land Protection Division
Oklahoma Department of Environmental Quality

c. Katrina Higgins Coltrain, U.S. EPA Dallas



State Environmental Laboratory Services Division

EPA DRINKING WATER CERTIFICATION #OK00013

General Inquiries: 1-866-412-3057

SAMPLE INFORMATION

Sample Number: 066587.009

Collected By: TD

Description: (b) (6)

Collected: 12/8/15 11:47 am

Received: 12/8/15 4:09 pm

TEST RESULTS

Analysis: Total Coliforms

Analysis Method: SM 9223B

Component Name	Result	Unit	Qualifiers	Analyst	Analysis Date
E. Coli	<1.0	MPN/100 mL		BCD	12/9/15
Total Coliform	<1.0	MPN/100 mL		BCD	12/9/15



State Environmental Laboratory Services Division

EPA DRINKING WATER CERTIFICATION #OK00013

General Inquiries: 1-866-412-3057

SAMPLE INFORMATION

Sample Number: 066587.010

Collected By: TD

Description: (b) (6)

Collected: 12/8/15 11:47 am

Received: 12/8/15 4:09 pm

TEST RESULTS

Analysis: Volatile Organic Compounds

Analysis Method: EPA 524.3

Component Name	Result	Unit	Qualifiers	Analyst	Analysis Date
1,1,1-Trichloroethane	<0.5	µg/L		SAR	12/9/15
1,1,2-Trichloroethane	<0.5	µg/L		SAR	12/9/15
1,1-Dichloroethene	<0.5	µg/L		SAR	12/9/15
1,2,4-Trichlorobenzene	<0.5	µg/L		SAR	12/9/15
1,2-Dichlorobenzene	<0.5	µg/L		SAR	12/9/15
1,2-Dichloroethane	<0.5	µg/L		SAR	12/9/15
1,2-Dichloropropane	<0.5	µg/L		SAR	12/9/15
1,4-Dichlorobenzene	<0.5	µg/L		SAR	12/9/15
Benzene	<0.5	µg/L		SAR	12/9/15
Carbon Tetrachloride	<0.5	µg/L		SAR	12/9/15
Chlorobenzene	<0.5	µg/L		SAR	12/9/15
cis-1,2-Dichloroethene	<0.5	µg/L		SAR	12/9/15
Ethylbenzene	<0.5	µg/L		SAR	12/9/15
Methyl tert-Butyl Ether (MtBE)	<0.5	µg/L		SAR	12/9/15
Methylene Chloride	<0.5	µg/L		SAR	12/9/15
Styrene	<0.5	µg/L		SAR	12/9/15
Tetrachloroethene	<0.5	µg/L		SAR	12/9/15
Toluene	<0.5	µg/L		SAR	12/9/15
trans-1,2-Dichloroethene	<0.5	µg/L		SAR	12/9/15
Trichloroethene	<0.5	µg/L		SAR	12/9/15
Vinyl Chloride	<0.5	µg/L		SAR	12/9/15
Xylenes	<0.5	µg/L		SAR	12/9/15

Sample Number: 547553
 Project Code: SW-WE
 Agency Number: 1195
 Date Collected: 12/8/2015
 Time Collected: 1147
 Date Received: 12/8/2015
 Date Completed: 12/15/2015
 Collected By: TD
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 1/21/2016

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
 707 N. ROBINSON
 OKLAHOMA CITY
 OKLAHOMA, 73102-6010
 General Inquiries: 1-866-412-3057
 or selsd@deq.ok.gov
Report of Analysis by GCMS
 EPA Drinking Water Certification #OK00013

To: TODD DOWNHAM/LPD

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Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Dilution Factor, Extractab:		1.00		12/14/15		
Acenaphthylene	<	20.0	UG/L	12/14/15	8270DM	
Acenaphthene	<	20.0	UG/L	12/14/15	8270DM	
Anthracene	<	20.0	UG/L	12/14/15	8270DM	
Benzo(b)fluoranthene	<	20.0	UG/L	12/14/15	8270DM	
Benzo(k)fluoranthene	<	20.0	UG/L	12/14/15	8270DM	
Benzo(a)pyrene	<	20.0	UG/L	12/14/15	8270DM	
Bis(2-chloroethyl)ether	<	20.0	UG/L	12/14/15	8270DM	
Bis(2-chloroethoxy)methane	<	20.0	UG/L	12/14/15	8270DM	
Bis(2-chloroisopropyl)ethe:	<	20.0	UG/L	12/14/15	8270DM	
Butylbenzylphthalate	<	20.0	UG/L	12/14/15	8270DM	
Chrysene	<	20.0	UG/L	12/14/15	8270DM	
Diethylphthalate	<	20.0	UG/L	12/14/15	8270DM	
Dimethylphthalate	<	20.0	UG/L	12/14/15	8270DM	
Fluoranthene	<	20.0	UG/L	12/14/15	8270DM	
Fluorene	<	20.0	UG/L	12/14/15	8270DM	
Hexachlorocyclopentadiene	<	20.0	UG/L	12/14/15	8270DM	
Hexachloroethane in water	<	20.0	UG/L	12/14/15	8270DM	
Indeno(123cd)pyrene	<	20.0	UG/L	12/14/15	8270DM	
Isophorone	<	20.0	UG/L	12/14/15	8270DM	
Nitrosodipropylamine	<	20.0	UG/L	12/14/15	8270DM	
Nitrosodiphenylamine	<	20.0	UG/L	12/14/15	8270DM	
Nitrobenzene	<	20.0	UG/L	12/14/15	8270DM	
p-Chloro-m-cresol	<	20.0	UG/L	12/14/15	8270DM	
Phenanthrene	<	20.0	UG/L	12/14/15	8270DM	
Pyrene	<	20.0	UG/L	12/14/15	8270DM	
Benzo(ghi)perylene	<	20.0	UG/L	12/14/15	8270DM	
Benzo(a)anthracene	<	20.0	UG/L	12/14/15	8270DM	
1,2,4-Trichlorobenzene	<	20.0	UG/L	12/14/15	8270DM	
Dibenzo(ah)anthracene	<	20.0	UG/L	12/14/15	8270DM	
1,4-Dichlorobenzene	<	20.0	UG/L	12/14/15	8270DM	
2-Chloronaphthalene	<	20.0	UG/L	12/14/15	8270DM	
2-Chlorophenol	<	20.0	UG/L	12/14/15	8270DM	

Sample Number: 547553
 Project Code: SW-WE
 Agency Number: 1195
 Date Collected: 12/8/2015
 Time Collected: 1147
 Date Received: 12/8/2015
 Date Completed: 12/15/2015
 Collected By: TD
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 1/21/2016

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
 707 N. ROBINSON
 OKLAHOMA CITY
 OKLAHOMA, 73102-6010
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Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
2-Nitrophenol	<	20.0	UG/L	12/14/15	8270DM	
Di-n-octylphthalate	<	20.0	UG/L	12/14/15	8270DM	
2,4-Dichlorophenol	<	20.0	UG/L	12/14/15	8270DM	
2,4-Dimethylphenol	<	20.0	UG/L	12/14/15	8270DM	
2,4-Dinitrotoluene	<	20.0	UG/L	12/14/15	8270DM	
2,4-Dinitrophenol	<	50.0	UG/L	12/14/15	8270DM	
2,4,6-Trichlorophenol	<	20.0	UG/L	12/14/15	8270DM	
2,6-Dinitrotoluene	<	20.0	UG/L	12/14/15	8270DM	
3,3'-Dichlorobenzidine	<	20.0	UG/L	12/14/15	8270DM	
4-Bromophenylphenyl ether	<	20.0	UG/L	12/14/15	8270DM	
4-Chlorophenyl phenylether	<	20.0	UG/L	12/14/15	8270DM	
4-Nitrophenol	<	50.0	UG/L	12/14/15	8270DM	
4,6-Dinitro-o-cresol	<	50.0	UG/L	12/14/15	8270DM	
Phenol	<	20.0	UG/L	12/14/15	8270DM	
Naphthalene	<	20.0	UG/L	12/14/15	8270DM	
Pentachlorophenol	<	50.0	UG/L	12/14/15	8270DM	
Bis(2-ethylhexyl)phthalate	<	20.0	UG/L	12/14/15	8270DM	
Di-n-butylphthalate	<	20.0	UG/L	12/14/15	8270DM	
Hexachlorobenzene	<	20.0	UG/L	12/14/15	8270DM	
Hexachlorobutadiene	<	20.0	UG/L	12/14/15	8270DM	
Dibenzofuran	<	20.0	UG/L	12/14/15	8270DM	
2-Methylnaphthalene	<	20.0	UG/L	12/14/15	8270DM	
2-Methylphenol	<	20.0	UG/L	12/14/15	8270DM	
4-Methylphenol	<	20.0	UG/L	12/14/15	8270DM	
2,4,5-Trichlorophenol	<	20.0	UG/L	12/14/15	8270DM	
4-Chloroaniline	<	20.0	UG/L	12/14/15	8270DM	
2-Nitroaniline	<	50.0	UG/L	12/14/15	8270DM	
3-Nitroaniline	<	50.0	UG/L	12/14/15	8270DM	
4-Nitroaniline	<	50.0	UG/L	12/14/15	8270DM	

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
2-FLUOROBIPHENYL		80
P-TERPHENYL-D14		96

Sample Number: 547553
Project Code: SW-WE
Agency Number: 1195
Date Collected: 12/8/2015
Time Collected: 1147
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EPA Drinking Water Certification #OK00013

To: TODD DOWNHAM/LPD

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COMPOUND	SURROGATE RECOVERIES	RECOVERY %
2-FLUOROPHENOL		36
NITROBENZENE-D5		75
2,4,6-TRIBROMOPHENOL		98
PHENOL-D5		24

COMPOUND	TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH	VALUE	UNITS
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NU

Summary

Labs performing analysis on this Sample:

Metals GCMS

SOURCE: WILCOX

COUNTY: CITY:

SAMPLERS COMMENTS:

WR-5; (b) (6) LW PROJECT ID DEQ-066587

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE TEMP = 5.2 C

ANALYST'S COMMENTS:

Heather Rhoads (8270DM), (TE1) Sample received on ice during cooling down phase. Analyzed.
(NU) No TICs (tentatively identified compounds) were detected above the lower limit of
quantitation for this analysis.

* ANALYST

Heather Rhoads

Sample Number: 547553
Project Code: SW-WE
Agency Number: 1195
Date Collected: 12/8/2015
Time Collected: 1147
Date Received: 12/8/2015
Date Completed: 12/17/2015
Collected By: TD
PWS Id:
Location Code:
Station:
Facility:
Report Date: 12/17/2015

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Report of Analysis by Metals
EPA Drinking Water Certification #OK00013

To: TODD DOWNHAM/LPD

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Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Arsenic, Total	<	2.00	UG/L	12/11/15	200.8	
Barium, Total		54.2	UG/L	12/11/15	200.8	
Beryllium, Total	<	2.00	UG/L	12/11/15	200.8	
Cadmium, Total	<	2.00	UG/L	12/11/15	200.8	
Chromium, Total		5.20	UG/L	12/11/15	200.8	
Copper, Total		8.40	UG/L	12/11/15	200.8	
Lead, Total	<	5.00	UG/L	12/11/15	200.8	
Thallium, Total	<	1.00	UG/L	12/11/15	200.8	
Nickel, Total	<	10.0	UG/L	12/11/15	200.8	
Silver, Total	<	10.0	UG/L	12/11/15	200.8	
Zinc, Total	<	10.0	UG/L	12/11/15	200.8	
Antimony, Total	<	2.00	UG/L	12/11/15	200.8	
Selenium, Total	<	10.0	UG/L	12/11/15	200.8	
Mercury, Total	<	0.05	UG/L	12/17/15	200.8	

Summary

Labs performing analysis on this Sample:

Metals GCMS

SOURCE: WILCOX

COUNTY: CITY:

SAMPLERS COMMENTS:

WR-5; (b) (6) : LW PROJECT ID DEQ-066587

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE TEMP = 5.2 C

ANALYST'S COMMENTS:

* ANALYST

Greg Goode

Greg Goode
State Environmental Laboratory

SCOTT THOMPSON
EXECUTIVE DIRECTOR



OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
GOVERNOR

February 8th, 2016

(b) (6)

Dear Ms. (b) (6),

The Oklahoma Department of Environmental Quality (DEQ) sampled water from your house well on December 18th, 2015 as part of a reoccurring sampling event that will be performed approximately every six months. DEQ has offered this sampling to residents that live on, or adjacent to the Wilcox Oil Company Superfund Site. You are receiving this letter because you have provided DEQ permission to enter your property and collect a water sample from your well.

DEQ sampled for four types of contaminants in your private well. Those are: Biological (E.Coli and Total Coliform), Volatile Organic Compounds (VOC's), Semi-Volatile Organic Compounds (SVOCs) and Metals.

The first page of the sampling results is for E. Coli and Total Coliform Bacteria. E. Coli and Total Coliform were not detected in your well as indicated by the "<" symbol in the Results column.

The second of the sampling results is for VOCs. VOC's were not detected in your well as indicated by the "<" in the Results column.

Pages 3 through 5 of the sampling results are for SVOCs. SVOCs were not detected in your well as indicated by the "<" symbol in the Qualifier column.

The last page of the sampling results is for Metals. Several metals were detected (highlighted) at low concentrations, which is considered normal levels and are not considered to be a health risk.

If you have questions about this letter or the sampling data, do not hesitate to call me at (405) 702-5136. Please contact Katrina Higgins Coltrain with the U.S. Environmental Protection Agency at (214) 665-8143 with any questions about the EPA Superfund process or plans for the Wilcox Site.

Sincerely,

A handwritten signature in black ink that reads "W. Todd Downham". The signature is written in a cursive, flowing style.

Todd Downham
Project Manager, Wilcox Oil Company Superfund Site
Land Protection Division
Oklahoma Department of Environmental Quality

c. Katrina Higgins Coltrain, U.S. EPA Dallas



State Environmental Laboratory Services Division

EPA DRINKING WATER CERTIFICATION #OK00013

General Inquiries: 1-866-412-3057

SAMPLE INFORMATION

Sample Number: 066587.011

Collected By: TD

Description: (b) (6)

Collected: 12/8/15 12:15 pm

Received: 12/8/15 4:09 pm

TEST RESULTS

Analysis: Total Coliforms

Analysis Method: SM 9223B

Component Name	Result	Unit	Qualifiers	Analyst	Analysis Date
E. Coli	<1.0	MPN/100 mL		BCD	12/9/15
Total Coliform	<1.0	MPN/100 mL		BCD	12/9/15



State Environmental Laboratory Services Division

EPA DRINKING WATER CERTIFICATION #OK00013

General Inquiries: 1-866-412-3057

SAMPLE INFORMATION

Sample Number: 066587.012

Collected By: TD

Description: (b) (6)

Collected: 12/8/15 12:15 pm

Received: 12/8/15 4:09 pm

TEST RESULTS

Analysis: Volatile Organic Compounds

Analysis Method: EPA 524.3

Component Name	Result	Unit	Qualifiers	Analyst	Analysis Date
1,1,1-Trichloroethane	<0.5	µg/L		SAR	12/9/15
1,1,2-Trichloroethane	<0.5	µg/L		SAR	12/9/15
1,1-Dichloroethene	<0.5	µg/L		SAR	12/9/15
1,2,4-Trichlorobenzene	<0.5	µg/L		SAR	12/9/15
1,2-Dichlorobenzene	<0.5	µg/L		SAR	12/9/15
1,2-Dichloroethane	<0.5	µg/L		SAR	12/9/15
1,2-Dichloropropane	<0.5	µg/L		SAR	12/9/15
1,4-Dichlorobenzene	<0.5	µg/L		SAR	12/9/15
Benzene	<0.5	µg/L		SAR	12/9/15
Carbon Tetrachloride	<0.5	µg/L		SAR	12/9/15
Chlorobenzene	<0.5	µg/L		SAR	12/9/15
cis-1,2-Dichloroethene	<0.5	µg/L		SAR	12/9/15
Ethylbenzene	<0.5	µg/L		SAR	12/9/15
Methyl tert-Butyl Ether (MtBE)	<0.5	µg/L		SAR	12/9/15
Methylene Chloride	<0.5	µg/L		SAR	12/9/15
Styrene	<0.5	µg/L		SAR	12/9/15
Tetrachloroethene	<0.5	µg/L		SAR	12/9/15
Toluene	<0.5	µg/L		SAR	12/9/15
trans-1,2-Dichloroethene	<0.5	µg/L		SAR	12/9/15
Trichloroethene	<0.5	µg/L		SAR	12/9/15
Vinyl Chloride	<0.5	µg/L		SAR	12/9/15
Xylenes	<0.5	µg/L		SAR	12/9/15

Sample Number: 547554
 Project Code: SW-WE
 Agency Number: 1195
 Date Collected: 12/8/2015
 Time Collected: 1215
 Date Received: 12/8/2015
 Date Completed: 12/15/2015
 Collected By: TD
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 12/15/2015

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To: TODD DOWNHAM/LPD

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Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Dilution Factor, Extractab:		1.00		12/14/15		
Acenaphthylene	<	20.0	UG/L	12/14/15	8270DM	
Acenaphthene	<	20.0	UG/L	12/14/15	8270DM	
Anthracene	<	20.0	UG/L	12/14/15	8270DM	
Benzo(b)fluoranthene	<	20.0	UG/L	12/14/15	8270DM	
Benzo(k)fluoranthene	<	20.0	UG/L	12/14/15	8270DM	
Benzo(a)pyrene	<	20.0	UG/L	12/14/15	8270DM	
Bis(2-chloroethyl)ether	<	20.0	UG/L	12/14/15	8270DM	
Bis(2-chloroethoxy)methane	<	20.0	UG/L	12/14/15	8270DM	
Bis(2-chloroisopropyl)ether	<	20.0	UG/L	12/14/15	8270DM	
Butylbenzylphthalate	<	20.0	UG/L	12/14/15	8270DM	
Chrysene	<	20.0	UG/L	12/14/15	8270DM	
Diethylphthalate	<	20.0	UG/L	12/14/15	8270DM	
Dimethylphthalate	<	20.0	UG/L	12/14/15	8270DM	
Fluoranthene	<	20.0	UG/L	12/14/15	8270DM	
Fluorene	<	20.0	UG/L	12/14/15	8270DM	
Hexachlorocyclopentadiene	<	20.0	UG/L	12/14/15	8270DM	
Hexachloroethane in water	<	20.0	UG/L	12/14/15	8270DM	
Indeno(123cd)pyrene	<	20.0	UG/L	12/14/15	8270DM	
Isophorone	<	20.0	UG/L	12/14/15	8270DM	
Nitrosodipropylamine	<	20.0	UG/L	12/14/15	8270DM	
Nitrosodiphenylamine	<	20.0	UG/L	12/14/15	8270DM	
Nitrobenzene	<	20.0	UG/L	12/14/15	8270DM	
p-Chloro-m-cresol	<	20.0	UG/L	12/14/15	8270DM	
Phenanthrene	<	20.0	UG/L	12/14/15	8270DM	
Pyrene	<	20.0	UG/L	12/14/15	8270DM	
Benzo(ghi)perylene	<	20.0	UG/L	12/14/15	8270DM	
Benzo(a)anthracene	<	20.0	UG/L	12/14/15	8270DM	
1,2,4-Trichlorobenzene	<	20.0	UG/L	12/14/15	8270DM	
Dibenzo(ah)anthracene	<	20.0	UG/L	12/14/15	8270DM	
1,4-Dichlorobenzene	<	20.0	UG/L	12/14/15	8270DM	
2-Chloronaphthalene	<	20.0	UG/L	12/14/15	8270DM	
2-Chlorophenol	<	20.0	UG/L	12/14/15	8270DM	

Sample Number: 547554
 Project Code: SW-WE
 Agency Number: 1195
 Date Collected: 12/8/2015
 Time Collected: 1215
 Date Received: 12/8/2015
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 Report Date: 12/15/2015

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Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
2-Nitrophenol	A	20.0	UG/L	12/14/15	8270DM	
Di-n-octylphthalate	A	20.0	UG/L	12/14/15	8270DM	
2,4-Dichlorophenol	A	20.0	UG/L	12/14/15	8270DM	
2,4-Dimethylphenol	A	20.0	UG/L	12/14/15	8270DM	
2,4-Dinitrotoluene	A	20.0	UG/L	12/14/15	8270DM	
2,4-Dinitrophenol	A	50.0	UG/L	12/14/15	8270DM	
2,4,6-Trichlorophenol	A	20.0	UG/L	12/14/15	8270DM	
2,6-Dinitrotoluene	A	20.0	UG/L	12/14/15	8270DM	
3,3'-Dichlorobenzidine	A	20.0	UG/L	12/14/15	8270DM	
4-Bromophenylphenyl ether	A	20.0	UG/L	12/14/15	8270DM	
4-Chlorophenyl phenylether	A	20.0	UG/L	12/14/15	8270DM	
4-Nitrophenol	A	50.0	UG/L	12/14/15	8270DM	
4,6-Dinitro-o-cresol	A	50.0	UG/L	12/14/15	8270DM	
Phenol	A	20.0	UG/L	12/14/15	8270DM	
Naphthalene	A	20.0	UG/L	12/14/15	8270DM	
Pentachlorophenol	A	50.0	UG/L	12/14/15	8270DM	
Bis(2-ethylhexyl)phthalate	A	20.0	UG/L	12/14/15	8270DM	
Di-n-butylphthalate	A	20.0	UG/L	12/14/15	8270DM	
Hexachlorobenzene	A	20.0	UG/L	12/14/15	8270DM	
Hexachlorobutadiene	A	20.0	UG/L	12/14/15	8270DM	
Dibenzofuran	A	20.0	UG/L	12/14/15	8270DM	
2-Methylnaphthalene	A	20.0	UG/L	12/14/15	8270DM	
2-Methylphenol	A	20.0	UG/L	12/14/15	8270DM	
4-Methylphenol	A	20.0	UG/L	12/14/15	8270DM	
2,4,5-Trichlorophenol	A	20.0	UG/L	12/14/15	8270DM	
4-Chloroaniline	A	20.0	UG/L	12/14/15	8270DM	
2-Nitroaniline	A	50.0	UG/L	12/14/15	8270DM	
3-Nitroaniline	A	50.0	UG/L	12/14/15	8270DM	
4-Nitroaniline	A	50.0	UG/L	12/14/15	8270DM	

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
PHENOL-D5		19
2,4,6-TRIBROMOPHENOL		94

Sample Number: 547554
Project Code: SW-WE
Agency Number: 1195
Date Collected: 12/8/2015
Time Collected: 1215
Date Received: 12/8/2015
Date Completed: 12/15/2015
Collected By: TD
PWS Id:
Location Code:
Station:
Facility:
Report Date: 12/15/2015

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To: TODD DOWNHAM/LPD

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COMPOUND	SURROGATE RECOVERIES	RECOVERY %
2-FLUOROBIPHENYL		72
2-FLUOROPHENOL		30
NITROBENZENE-D5		67
P-TERPHENYL-D14		90

COMPOUND	TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH	VALUE	UNITS
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NU

Summary

Labs performing analysis on this Sample:

Metals GCMS

SOURCE: WILCOX

COUNTY: CITY:

SAMPLERS COMMENTS:

WR-6; (b) (6); LW PROJECT ID DEQ-066587

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE TEMP = 2.8 C

ANALYST'S COMMENTS:

Heather Rhoads (8270DM), (NU) No TICs (tentatively identified compounds) were detected above the lower limit of quantitation for this analysis.

* ANALYST

Heather Rhoads

Sample Number: 547554
Project Code: SW-WE
Agency Number: 1195
Date Collected: 12/8/2015
Time Collected: 1215
Date Received: 12/8/2015
Date Completed: 12/17/2015
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Report of Analysis by Metals
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To: TODD DOWNHAM/LPD

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Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Arsenic, Total	<	2.00	UG/L	12/11/15	200.8	
Barium, Total		42.5	UG/L	12/11/15	200.8	
Beryllium, Total	<	2.00	UG/L	12/11/15	200.8	
Cadmium, Total	<	2.00	UG/L	12/11/15	200.8	
Chromium, Total		5.20	UG/L	12/11/15	200.8	
Copper, Total		8.70	UG/L	12/11/15	200.8	
Lead, Total	<	5.00	UG/L	12/11/15	200.8	
Thallium, Total	<	1.00	UG/L	12/11/15	200.8	
Nickel, Total	<	10.0	UG/L	12/11/15	200.8	
Silver, Total	<	10.0	UG/L	12/11/15	200.8	
Zinc, Total	<	10.0	UG/L	12/11/15	200.8	
Antimony, Total	<	2.00	UG/L	12/11/15	200.8	
Selenium, Total	<	10.0	UG/L	12/11/15	200.8	
Mercury, Total	<	0.05	UG/L	12/17/15	200.8	

Summary

Labs performing analysis on this Sample:

Metals GCMS

SOURCE: WILCOX

COUNTY: CITY:

SAMPLERS COMMENTS:

WR-6; (b) (6) LW PROJECT ID DEQ-066587

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE TEMP = 2.8 C

ANALYST'S COMMENTS:

* ANALYST

Greg Goode

Greg Goode
State Environmental Laboratory

SCOTT THOMPSON
EXECUTIVE DIRECTOR



OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
GOVERNOR

February 8th, 2016

(b) (6)

Dear Mr. and Mrs. (b) (6),

The Oklahoma Department of Environmental Quality (DEQ) sampled water from your house well on December 18th, 2015 as part of a reoccurring sampling event that will be performed approximately every six months. DEQ has offered this sampling to residents that live on, or adjacent to the Wilcox Oil Company Superfund Site. You are receiving this letter because you have provided DEQ permission to enter your property and collect a water sample from your well.

DEQ sampled for four types of contaminants in your private well. Those are: Biological (E.Coli and Total Coliform), Volatile Organic Compounds (VOCs), Semi-Volatile Organic Compounds (SVOCs) and Metals.

The first page of the sampling results is for E. Coli and Total Coliform Bacteria. E. Coli and Total Coliform were not detected in your well as indicated by the "<" symbol in the Results column.

The second of the sampling results is for VOCs. VOCs were not detected in your well as indicated by the "<" in the Results column.

Pages 3 through 5 of the sampling results are for SVOCs. SVOCs were not detected in your well as indicated by the "<" symbol in the Qualifier column.

The last page of the sampling results is for Metals. Several metals were detected (highlighted) at low concentrations, which is considered normal levels and are not considered to be a health risk.

If you have questions about this letter or the sampling data, do not hesitate to call me at (405) 702-5136. Please contact Katrina Higgins Coltrain with the U.S. Environmental Protection Agency at (214) 665-8143 with any questions about the EPA Superfund process or plans for the Wilcox Site.

Sincerely,

A handwritten signature in black ink that reads "W. Todd Downham". The signature is written in a cursive style with a large, stylized "W" and "D".

Todd Downham
Project Manager, Wilcox Oil Company Superfund Site
Land Protection Division
Oklahoma Department of Environmental Quality

c. Katrina Higgins Coltrain, U.S. EPA Dallas



State Environmental Laboratory Services Division

EPA DRINKING WATER CERTIFICATION #OK00013

General Inquiries: 1-866-412-3057

SAMPLE INFORMATION

Sample Number: 066587.013

Collected By: TD

Description:

(b) (6)

Collected: 12/8/15 12:30 pm

Received: 12/8/15 4:09 pm

TEST RESULTS

Analysis: Total Coliforms

Analysis Method: SM 9223B

Component Name	Result	Unit	Qualifiers	Analyst	Analysis Date
E. Coli	<1.0	MPN/100 mL		BCD	12/9/15
Total Coliform	<1.0	MPN/100 mL		BCD	12/9/15



State Environmental Laboratory Services Division

EPA DRINKING WATER CERTIFICATION #OK00013

General Inquiries: 1-866-412-3057

SAMPLE INFORMATION

Sample Number: 066587.014

Collected By: TD

Description: (b) (6)

Collected: 12/8/15 12:30 pm

Received: 12/8/15 4:09 pm

TEST RESULTS

Analysis: Volatile Organic Compounds

Analysis Method: EPA 524.3

Component Name	Result	Unit	Qualifiers	Analyst	Analysis Date
1,1,1-Trichloroethane	<0.5	µg/L		SAR	12/9/15
1,1,2-Trichloroethane	<0.5	µg/L		SAR	12/9/15
1,1-Dichloroethene	<0.5	µg/L		SAR	12/9/15
1,2,4-Trichlorobenzene	<0.5	µg/L		SAR	12/9/15
1,2-Dichlorobenzene	<0.5	µg/L		SAR	12/9/15
1,2-Dichloroethane	<0.5	µg/L		SAR	12/9/15
1,2-Dichloropropane	<0.5	µg/L		SAR	12/9/15
1,4-Dichlorobenzene	<0.5	µg/L		SAR	12/9/15
Benzene	<0.5	µg/L		SAR	12/9/15
Carbon Tetrachloride	<0.5	µg/L		SAR	12/9/15
Chlorobenzene	<0.5	µg/L		SAR	12/9/15
cis-1,2-Dichloroethene	<0.5	µg/L		SAR	12/9/15
Ethylbenzene	<0.5	µg/L		SAR	12/9/15
Methyl tert-Butyl Ether (MtBE)	<0.5	µg/L		SAR	12/9/15
Methylene Chloride	<0.5	µg/L		SAR	12/9/15
Styrene	<0.5	µg/L		SAR	12/9/15
Tetrachloroethene	<0.5	µg/L		SAR	12/9/15
Toluene	<0.5	µg/L		SAR	12/9/15
trans-1,2-Dichloroethene	<0.5	µg/L		SAR	12/9/15
Trichloroethene	<0.5	µg/L		SAR	12/9/15
Vinyl Chloride	<0.5	µg/L		SAR	12/9/15
Xylenes	<0.5	µg/L		SAR	12/9/15

Sample Number: 547555
 Project Code: SW-WE
 Agency Number: 1195
 Date Collected: 12/8/2015
 Time Collected: 1230
 Date Received: 12/8/2015
 Date Completed: 12/15/2015
 Collected By: TD
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 12/15/2015

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
 707 N. ROBINSON
 OKLAHOMA CITY
 OKLAHOMA, 73102-6010
 General Inquiries: 1-866-412-3057
 or selsd@deq.ok.gov

Report of Analysis by GCMS

EPA Drinking Water Certification #OK00013

To: TODD DOWNHAM/LPD

CC: FILE COPY

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Dilution Factor, Extractab:		1.00		12/14/15		
Acenaphthylene	<	20.0	UG/L	12/14/15	8270DM	
Acenaphthene	<	20.0	UG/L	12/14/15	8270DM	
Anthracene	<	20.0	UG/L	12/14/15	8270DM	
Benzo(b)fluoranthene	<	20.0	UG/L	12/14/15	8270DM	
Benzo(k)fluoranthene	<	20.0	UG/L	12/14/15	8270DM	
Benzo(a)pyrene	<	20.0	UG/L	12/14/15	8270DM	
Bis(2-chloroethyl)ether	<	20.0	UG/L	12/14/15	8270DM	
Bis(2-chloroethoxy)methane	<	20.0	UG/L	12/14/15	8270DM	
Bis(2-chloroisopropyl)ethe	<	20.0	UG/L	12/14/15	8270DM	
Butylbenzylphthalate	<	20.0	UG/L	12/14/15	8270DM	
Chrysene	<	20.0	UG/L	12/14/15	8270DM	
Diethylphthalate	<	20.0	UG/L	12/14/15	8270DM	
Dimethylphthalate	<	20.0	UG/L	12/14/15	8270DM	
Fluoranthene	<	20.0	UG/L	12/14/15	8270DM	
Fluorene	<	20.0	UG/L	12/14/15	8270DM	
Hexachlorocyclopentadiene	<	20.0	UG/L	12/14/15	8270DM	
Hexachloroethane in water	<	20.0	UG/L	12/14/15	8270DM	
Indeno(123cd)pyrene	<	20.0	UG/L	12/14/15	8270DM	
Isophorone	<	20.0	UG/L	12/14/15	8270DM	
Nitrosodipropylamine	<	20.0	UG/L	12/14/15	8270DM	
Nitrosodiphenylamine	<	20.0	UG/L	12/14/15	8270DM	
Nitrobenzene	<	20.0	UG/L	12/14/15	8270DM	
p-Chloro-m-cresol	<	20.0	UG/L	12/14/15	8270DM	
Phenanthrene	<	20.0	UG/L	12/14/15	8270DM	
Pyrene	<	20.0	UG/L	12/14/15	8270DM	
Benzo(ghi)perylene	<	20.0	UG/L	12/14/15	8270DM	
Benzo(a)anthracene	<	20.0	UG/L	12/14/15	8270DM	
1,2,4-Trichlorobenzene	<	20.0	UG/L	12/14/15	8270DM	
Dibenzo(ah)anthracene	<	20.0	UG/L	12/14/15	8270DM	
1,4-Dichlorobenzene	<	20.0	UG/L	12/14/15	8270DM	
2-Chloronaphthalene	<	20.0	UG/L	12/14/15	8270DM	
2-Chlorophenol	<	20.0	UG/L	12/14/15	8270DM	

Sample Number: 547555
 Project Code: SW-WE
 Agency Number: 1195
 Date Collected: 12/8/2015
 Time Collected: 1230
 Date Received: 12/8/2015
 Date Completed: 12/15/2015
 Collected By: TD
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 12/15/2015

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 or selsd@deq.ok.gov

Report of Analysis by GCMS

EPA Drinking Water Certification #OK00013

To: TODD DOWNHAM/LPD

CC: FILE COPY

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
2-Nitrophenol	^	20.0	UG/L	12/14/15	8270DM	
Di-n-octylphthalate	^	20.0	UG/L	12/14/15	8270DM	
2,4-Dichlorophenol	^	20.0	UG/L	12/14/15	8270DM	
2,4-Dimethylphenol	^	20.0	UG/L	12/14/15	8270DM	
2,4-Dinitrotoluene	^	20.0	UG/L	12/14/15	8270DM	
2,4-Dinitrophenol	^	50.0	UG/L	12/14/15	8270DM	
2,4,6-Trichlorophenol	^	20.0	UG/L	12/14/15	8270DM	
2,6-Dinitrotoluene	^	20.0	UG/L	12/14/15	8270DM	
3,3'-Dichlorobenzidine	^	20.0	UG/L	12/14/15	8270DM	
4-Bromophenylphenyl ether	^	20.0	UG/L	12/14/15	8270DM	
4-Chlorophenyl phenylether	^	20.0	UG/L	12/14/15	8270DM	
4-Nitrophenol	^	50.0	UG/L	12/14/15	8270DM	
4,6-Dinitro-o-cresol	^	50.0	UG/L	12/14/15	8270DM	
Phenol	^	20.0	UG/L	12/14/15	8270DM	
Naphthalene	^	20.0	UG/L	12/14/15	8270DM	
Pentachlorophenol	^	50.0	UG/L	12/14/15	8270DM	
Bis(2-ethylhexyl)phthalate	^	20.0	UG/L	12/14/15	8270DM	
Di-n-butylphthalate	^	20.0	UG/L	12/14/15	8270DM	
Hexachlorobenzene	^	20.0	UG/L	12/14/15	8270DM	
Hexachlorobutadiene	^	20.0	UG/L	12/14/15	8270DM	
Dibenzofuran	^	20.0	UG/L	12/14/15	8270DM	
2-Methylnaphthalene	^	20.0	UG/L	12/14/15	8270DM	
2-Methylphenol	^	20.0	UG/L	12/14/15	8270DM	
4-Methylphenol	^	20.0	UG/L	12/14/15	8270DM	
2,4,5-Trichlorophenol	^	20.0	UG/L	12/14/15	8270DM	
4-Chloroaniline	^	20.0	UG/L	12/14/15	8270DM	
2-Nitroaniline	^	50.0	UG/L	12/14/15	8270DM	
3-Nitroaniline	^	50.0	UG/L	12/14/15	8270DM	
4-Nitroaniline	^	50.0	UG/L	12/14/15	8270DM	

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
2-FLUOROBIPHENYL		80
PHENOL-D5		22

Sample Number: 547555
Project Code: SW-WE
Agency Number: 1195
Date Collected: 12/8/2015
Time Collected: 1230
Date Received: 12/8/2015
Date Completed: 12/15/2015
Collected By: TD
PWS Id:
Location Code:
Station:
Facility:
Report Date: 12/15/2015

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
707 N. ROBINSON
OKLAHOMA CITY
OKLAHOMA, 73102-6010
General Inquiries: 1-866-412-3057
or selsd@deq.ok.gov

Report of Analysis by GCMS

EPA Drinking Water Certification #OK00013

To: TODD DOWNHAM/LPD

CC: FILE COPY

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
NITROBENZENE-D5		74
2,4,6-TRIBROMOPHENOL		97
2-FLUOROPHENOL		36
P-TERPHENYL-D14		96

COMPOUND	TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH	VALUE	UNITS
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NU

Summary

Labs performing analysis on this Sample:

Metals GCMS

SOURCE: WILCOX
COUNTY: CITY:

SAMPLERS COMMENTS:

WR-7; (b) (6) LW PROJECT ID DEQ-066587

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE TEMP = 2.6 C

ANALYST'S COMMENTS:

Heather Rhoads (8270DM), (NU) No TICs (tentatively identified compounds) were detected above the lower limit of quantitation for this analysis.

* ANALYST

Heather Rhoads

Sample Number: 547555
Project Code: SW-WE
Agency Number: 1195
Date Collected: 12/8/2015
Time Collected: 1230
Date Received: 12/8/2015
Date Completed: 12/17/2015
Collected By: TD
PWS Id:
Location Code:
Station:
Facility:
Report Date: 12/17/2015

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
707 N. ROBINSON
OKLAHOMA CITY
OKLAHOMA, 73102-6010
General Inquiries: 1-866-412-3057
or selsd@deq.ok.gov

Report of Analysis by Metals
EPA Drinking Water Certification #OK00013

To: TODD DOWNHAM/LPD

CC: FILE COPY

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Arsenic, Total	<	2.00	UG/L	12/11/15	200.8	
Barium, Total		59.5	UG/L	12/11/15	200.8	
Beryllium, Total	<	2.00	UG/L	12/11/15	200.8	
Cadmium, Total	<	2.00	UG/L	12/11/15	200.8	
Chromium, Total	<	5.00	UG/L	12/11/15	200.8	
Copper, Total		5.30	UG/L	12/11/15	200.8	
Lead, Total	<	5.00	UG/L	12/11/15	200.8	
Thallium, Total	<	1.00	UG/L	12/11/15	200.8	
Nickel, Total	<	10.0	UG/L	12/11/15	200.8	
Silver, Total	<	10.0	UG/L	12/11/15	200.8	
Zinc, Total	<	10.0	UG/L	12/15/15	200.8	
Antimony, Total	<	2.00	UG/L	12/11/15	200.8	
Selenium, Total	<	10.0	UG/L	12/11/15	200.8	
Mercury, Total	<	0.05	UG/L	12/17/15	200.8	

Summary

Labs performing analysis on this Sample:

Metals GCMS

SOURCE: WILCOX

COUNTY: CITY:

SAMPLERS COMMENTS:

WR-7; (b) (6); LW PROJECT ID DEQ-066587

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE TEMP = 2.6 C

ANALYST'S COMMENTS:

(T) Turbidity measured to be > 1 NTU

* ANALYST

Greg Goode
Greg Goode
State Environmental Laboratory

SCOTT THOMPSON
EXECUTIVE DIRECTOR



OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
GOVERNOR

February 8th, 2016

(b) (6)

Dear Mr. (b) (6),

The Oklahoma Department of Environmental Quality (DEQ) sampled water from your house well on December 18th, 2015 as part of a reoccurring sampling event that will be performed approximately every six months. DEQ has offered this sampling to residents that live on, or adjacent to the Wilcox Oil Company Superfund Site. You are receiving this letter because you have provided DEQ permission to enter your property and collect a water sample from your well.

DEQ sampled for four types of contaminants in your private well. Those are: Biological (E. Coli and Total Coliform), Volatile Organic Compounds (VOCs), Semi-Volatile Organic Compounds (SVOCs) and Metals.

The first page of the sampling results is for E. Coli and Total Coliform Bacteria. E. Coli and Total Coliform were not detected in your well as indicated by the "<" symbol in the Results column.

The second of the sampling results is for VOCs. VOCs were not detected in your well as indicated by the "<" in the Results column.

Pages 3 through 5 of the sampling results are for SVOCs. SVOCs were not detected in your well as indicated by the "<" symbol in the Qualifier column.

The last page of the sampling results is for Metals. Several metals were detected (highlighted) at low concentrations, which is considered normal levels and are not considered to be a health risk.

If you have questions about this letter or the sampling data, do not hesitate to call me at (405) 702-5136. Please contact Katrina Higgins Coltrain with the U.S. Environmental Protection Agency at (214) 665-8143 with any questions about the EPA Superfund process or plans for the Wilcox Site.

Sincerely,

A handwritten signature in black ink that reads "W. Todd Downham". The signature is written in a cursive style with a large, stylized "W" and "D".

Todd Downham
Project Manager, Wilcox Oil Company Superfund Site
Land Protection Division
Oklahoma Department of Environmental Quality

c. Katrina Higgins Coltrain, U.S. EPA Dallas



State Environmental Laboratory Services Division

EPA DRINKING WATER CERTIFICATION #OK00013

General Inquiries: 1-866-412-3057

SAMPLE INFORMATION

Sample Number: 066587.015

Collected By: TD

Description: (b) (6)

Collected: 12/8/15 1:25 pm

Received: 12/8/15 4:09 pm

TEST RESULTS

Analysis: Total Coliforms

Analysis Method: SM 9223B

Component Name	Result	Unit	Qualifiers	Analyst	Analysis Date
E. Coli	<1.0	MPN/100 mL		BCD	12/9/15
Total Coliform	<1.0	MPN/100 mL		BCD	12/9/15



State Environmental Laboratory Services Division

EPA DRINKING WATER CERTIFICATION #OK00013

General Inquiries: 1-866-412-3057

SAMPLE INFORMATION

Sample Number: 066587.016

Collected By: TD

Description: (b) (6)

Collected: 12/8/15 1:25 pm

Received: 12/8/15 4:09 pm

TEST RESULTS

Analysis: Volatile Organic Compounds

Analysis Method: EPA 524.3

Component Name	Result	Unit	Qualifiers	Analyst	Analysis Date
1,1,1-Trichloroethane	<0.5	µg/L		SAR	12/9/15
1,1,2-Trichloroethane	<0.5	µg/L		SAR	12/9/15
1,1-Dichloroethene	<0.5	µg/L		SAR	12/9/15
1,2,4-Trichlorobenzene	<0.5	µg/L		SAR	12/9/15
1,2-Dichlorobenzene	<0.5	µg/L		SAR	12/9/15
1,2-Dichloroethane	<0.5	µg/L		SAR	12/9/15
1,2-Dichloropropane	<0.5	µg/L		SAR	12/9/15
1,4-Dichlorobenzene	<0.5	µg/L		SAR	12/9/15
Benzene	<0.5	µg/L		SAR	12/9/15
Carbon Tetrachloride	<0.5	µg/L		SAR	12/9/15
Chlorobenzene	<0.5	µg/L		SAR	12/9/15
cis-1,2-Dichloroethene	<0.5	µg/L		SAR	12/9/15
Ethylbenzene	<0.5	µg/L		SAR	12/9/15
Methyl tert-Butyl Ether (MtBE)	<0.5	µg/L		SAR	12/9/15
Methylene Chloride	<0.5	µg/L		SAR	12/9/15
Styrene	<0.5	µg/L		SAR	12/9/15
Tetrachloroethene	<0.5	µg/L		SAR	12/9/15
Toluene	<0.5	µg/L		SAR	12/9/15
trans-1,2-Dichloroethene	<0.5	µg/L		SAR	12/9/15
Trichloroethene	<0.5	µg/L		SAR	12/9/15
Vinyl Chloride	<0.5	µg/L		SAR	12/9/15
Xylenes	<0.5	µg/L		SAR	12/9/15

Sample Number: 547556
 Project Code: SW-WE
 Agency Number: 1195
 Date Collected: 12/8/2015
 Time Collected: 1325
 Date Received: 12/8/2015
 Date Completed: 12/15/2015
 Collected By: TD
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 12/15/2015

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
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Report of Analysis by GCMS

EPA Drinking Water Certification #OK00013

To: TODD DOWNHAM/LPD

CC: FILE COPY

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Dilution Factor, Extractab:		1.00		12/14/15		
Acenaphthylene	<	20.0	UG/L	12/14/15	8270DM	
Acenaphthene	<	20.0	UG/L	12/14/15	8270DM	
Anthracene	<	20.0	UG/L	12/14/15	8270DM	
Benzo(b)fluoranthene	<	20.0	UG/L	12/14/15	8270DM	
Benzo(k)fluoranthene	<	20.0	UG/L	12/14/15	8270DM	
Benzo(a)pyrene	<	20.0	UG/L	12/14/15	8270DM	
Bis(2-chloroethyl)ether	<	20.0	UG/L	12/14/15	8270DM	
Bis(2-chloroethoxy)methane	<	20.0	UG/L	12/14/15	8270DM	
Bis(2-chloroisopropyl)ether	<	20.0	UG/L	12/14/15	8270DM	
Butylbenzylphthalate	<	20.0	UG/L	12/14/15	8270DM	
Chrysene	<	20.0	UG/L	12/14/15	8270DM	
Diethylphthalate	<	20.0	UG/L	12/14/15	8270DM	
Dimethylphthalate	<	20.0	UG/L	12/14/15	8270DM	
Fluoranthene	<	20.0	UG/L	12/14/15	8270DM	
Fluorene	<	20.0	UG/L	12/14/15	8270DM	
Hexachlorocyclopentadiene	<	20.0	UG/L	12/14/15	8270DM	
Hexachloroethane in water	<	20.0	UG/L	12/14/15	8270DM	
Indeno(123cd)pyrene	<	20.0	UG/L	12/14/15	8270DM	
Isophorone	<	20.0	UG/L	12/14/15	8270DM	
Nitrosodipropylamine	<	20.0	UG/L	12/14/15	8270DM	
Nitrosodiphenylamine	<	20.0	UG/L	12/14/15	8270DM	
Nitrobenzene	<	20.0	UG/L	12/14/15	8270DM	
p-Chloro-m-cresol	<	20.0	UG/L	12/14/15	8270DM	
Phenanthrene	<	20.0	UG/L	12/14/15	8270DM	
Pyrene	<	20.0	UG/L	12/14/15	8270DM	
Benzo(ghi)perylene	<	20.0	UG/L	12/14/15	8270DM	
Benzo(a)anthracene	<	20.0	UG/L	12/14/15	8270DM	
1,2,4-Trichlorobenzene	<	20.0	UG/L	12/14/15	8270DM	
Dibenzo(ah)anthracene	<	20.0	UG/L	12/14/15	8270DM	
1,4-Dichlorobenzene	<	20.0	UG/L	12/14/15	8270DM	
2-Chloronaphthalene	<	20.0	UG/L	12/14/15	8270DM	
2-Chlorophenol	<	20.0	UG/L	12/14/15	8270DM	

Sample Number: 547556
 Project Code: SW-WE
 Agency Number: 1195
 Date Collected: 12/8/2015
 Time Collected: 1325
 Date Received: 12/8/2015
 Date Completed: 12/15/2015
 Collected By: TD
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 12/15/2015

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
 707 N. ROBINSON
 OKLAHOMA CITY
 OKLAHOMA, 73102-6010
 General Inquiries: 1-866-412-3057
 or selsd@deq.ok.gov

Report of Analysis by GCMS

EPA Drinking Water Certification #OK00013

To: TODD DOWNHAM/LPD

CC: FILE COPY

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
2-Nitrophenol	^	20.0	UG/L	12/14/15	8270DM	
Di-n-octylphthalate	^	20.0	UG/L	12/14/15	8270DM	
2,4-Dichlorophenol	^	20.0	UG/L	12/14/15	8270DM	
2,4-Dimethylphenol	^	20.0	UG/L	12/14/15	8270DM	
2,4-Dinitrotoluene	^	20.0	UG/L	12/14/15	8270DM	
2,4-Dinitrophenol	^	50.0	UG/L	12/14/15	8270DM	
2,4,6-Trichlorophenol	^	20.0	UG/L	12/14/15	8270DM	
2,6-Dinitrotoluene	^	20.0	UG/L	12/14/15	8270DM	
3,3'-Dichlorobenzidine	^	20.0	UG/L	12/14/15	8270DM	
4-Bromophenylphenyl ether	^	20.0	UG/L	12/14/15	8270DM	
4-Chlorophenyl phenylether	^	20.0	UG/L	12/14/15	8270DM	
4-Nitrophenol	^	50.0	UG/L	12/14/15	8270DM	
4,6-Dinitro-o-cresol	^	50.0	UG/L	12/14/15	8270DM	
Phenol	^	20.0	UG/L	12/14/15	8270DM	
Naphthalene	^	20.0	UG/L	12/14/15	8270DM	
Pentachlorophenol	^	50.0	UG/L	12/14/15	8270DM	
Bis(2-ethylhexyl)phthalate	^	20.0	UG/L	12/14/15	8270DM	
Di-n-butylphthalate	^	20.0	UG/L	12/14/15	8270DM	
Hexachlorobenzene	^	20.0	UG/L	12/14/15	8270DM	
Hexachlorobutadiene	^	20.0	UG/L	12/14/15	8270DM	
Dibenzofuran	^	20.0	UG/L	12/14/15	8270DM	
2-Methylnaphthalene	^	20.0	UG/L	12/14/15	8270DM	
2-Methylphenol	^	20.0	UG/L	12/14/15	8270DM	
4-Methylphenol	^	20.0	UG/L	12/14/15	8270DM	
2,4,5-Trichlorophenol	^	20.0	UG/L	12/14/15	8270DM	
4-Chloroaniline	^	20.0	UG/L	12/14/15	8270DM	
2-Nitroaniline	^	50.0	UG/L	12/14/15	8270DM	
3-Nitroaniline	^	50.0	UG/L	12/14/15	8270DM	
4-Nitroaniline	^	50.0	UG/L	12/14/15	8270DM	

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
P-TERPHENYL-D14		104
NITROBENZENE-D5		83

Sample Number: 547556
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COMPOUND	SURROGATE RECOVERIES	RECOVERY %
2-FLUOROBIPHENYL		87
2,4,6-TRIBROMOPHENOL		108
2-FLUOROPHENOL		38
PHENOL-D5		24

COMPOUND	TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH	VALUE	UNITS
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NU

Summary

Labs performing analysis on this Sample:

Metals GCMS

SOURCE: WILCOX

COUNTY: CITY:

SAMPLERS COMMENTS:

WR-8; (b) (6) LW PROJECT ID DEQ-066587

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE TEMP = 5.1 C

ANALYST'S COMMENTS:

Heather Rhoads (8270DM), (TE1) Sample received on ice during cooling down phase. Analyzed.
(NU) No TICs (tentatively identified compounds) were detected above the lower limit of
quantitation for this analysis.

* ANALYST

Heather Rhoads

Sample Number: 547556
Project Code: SW-WE
Agency Number: 1195
Date Collected: 12/8/2015
Time Collected: 1325
Date Received: 12/8/2015
Date Completed: 12/17/2015
Collected By: TD
PWS Id:
Location Code:
Station:
Facility:
Report Date: 12/17/2015

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Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Arsenic, Total	<	2.00	UG/L	12/11/15	200.8	
Barium, Total		93.0	UG/L	12/11/15	200.8	
Beryllium, Total	<	2.00	UG/L	12/11/15	200.8	
Cadmium, Total	<	2.00	UG/L	12/11/15	200.8	
Chromium, Total		8.20	UG/L	12/11/15	200.8	
Copper, Total		10.5	UG/L	12/11/15	200.8	
Lead, Total	<	5.00	UG/L	12/11/15	200.8	
Thallium, Total	<	1.00	UG/L	12/11/15	200.8	
Nickel, Total	<	10.0	UG/L	12/11/15	200.8	
Silver, Total	<	10.0	UG/L	12/11/15	200.8	
Zinc, Total		56.4	UG/L	12/11/15	200.8	
Antimony, Total	<	2.00	UG/L	12/11/15	200.8	
Selenium, Total	<	10.0	UG/L	12/11/15	200.8	
Mercury, Total	<	0.05	UG/L	12/17/15	200.8	

Summary

Labs performing analysis on this Sample:

Metals GCMS

SOURCE: WILCOX

COUNTY: CITY:

SAMPLERS COMMENTS:

WR-8; (b) (6) LW PROJECT ID DEQ-066587

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE TEMP = 5.1 C

ANALYST'S COMMENTS:

* ANALYST

Greg Goode
Greg Goode
State Environmental Laboratory